



Buffalo State College  
Undergraduate Catalog  
2021 - 2022

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# UNDERGRADUATE

**Buffalo State College, State University of New York**  
1300 Elmwood Avenue  
Buffalo, NY 14222-1095

<https://suny.buffalostate.edu>

## Nondiscrimination Notice

Pursuant to College policy, Buffalo State is committed to fostering a diverse community of outstanding faculty, staff, and students, as well as ensuring equal educational opportunity, employment, and access to services, programs, and activities without regard to an individual's race, color, national origin, religion, age, disability, sex, gender, gender identity, gender expression, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military or veteran status, domestic violence victim status, or criminal conviction. Employees, students, applicants, or other members of the college community (including but not limited to vendors, visitors, and guests) may not be subjected to harassment that is prohibited by law or treated adversely or retaliated against based upon a protected characteristic.

The college's policy is in accordance with federal and state laws and regulations prohibiting discrimination and harassment. These laws include the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, Title VII of the Civil Rights Act of 1964 as Amended by the Equal Employment Opportunity Act of 1972, and the New York State Human Rights Law. These laws prohibit discrimination and harassment, including sexual harassment and sexual violence.

Inquiries regarding the application of Title IX and other laws, regulation, and policies prohibiting discrimination may be directed to Crystal J. Rodriguez-Dabney, JD, Chief of Staff/Chief Diversity Officer, Cleveland Hall 517, (716) 878-4102, [rodrigcj@buffalostate.edu](mailto:rodrigcj@buffalostate.edu). Inquiries may also be directed to the U.S. Department of Education Office for Civil Rights, New York Office, 32 Old Slip 26th Floor, New York, N.Y., 10005-2500; (646) 428-3800; [OCR.NewYork@ed.gov](mailto:OCR.NewYork@ed.gov).

The *Undergraduate Catalog* is current as of August 2021. The college reserves the right to cancel any course described in this catalog and to change any rules governing curriculum, administration, tuition, fees, admissions, regulations affecting students, dates, and course content. Each student is expected to have knowledge of the information contained in this catalog and in other college publications. This catalog describes all undergraduate programs the college offers. Consult the *Graduate Catalog* for graduate programs. Consult the Summer Session schedule, <https://suny.buffalostate.edu/summer>

(<https://suny.buffalostate.edu/summer/>), for programs offered during the summer.

The offices of the vice presidents supplied copy for their respective areas of responsibility. The Academic Affairs Office coordinated the collection of data for this catalog.

## Accreditations

Buffalo State is accredited by the Middle States Commission on Higher Education  
3624 Market Street  
Philadelphia, PA 19104  
(267) 284-5000

The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. secretary of education and the Commission on Recognition of Postsecondary Accreditation. Buffalo State also is accredited by the Board of Regents, University of the State of New York. In addition, the following professional organizations have determined that Buffalo State programs meet their accreditation requirements:

- Academy of Nutrition and Dietetics, Accreditation Council for Education in Nutrition and Dietetics (ACEND)<sup>1</sup>
- Accreditation Association for Ambulatory Health Care (Weigel Health Center)
- Accreditation Commission for Programs in Hospitality Administration (ACPHA)
- Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)
- American Alliance of Museums (Burchfield Penney Art Center)
- Association of Technology, Management, and Applied Engineering (ATMAE)
- Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA)<sup>2</sup>
- Council for the Accreditation of Educator Preparation (CAEP)<sup>3</sup>
- Council for Interior Design Accreditation (CIDA) Council on Social Work Education (CSWE)
- Engineering Technology Accreditation Commission (ETAC)<sup>4</sup>
- Forensic Science Education Programs Accreditation Commission (FEPAC)
- International Association of Counseling Services (Counseling Center)
- National Association of Schools of Art and Design (NASAD)



- National Association of Schools of Music (NASM)
- National Association of Schools of Theatre (NAST)

Accreditation papers may be reviewed in the Provost's Office, Cleveland Hall 519.

<sup>1</sup> SUNY-Buffalo State's Didactic Program in Nutrition and Dietetics is accredited by:  
The Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics  
120 South Riverside Plaza, Suite 2000  
Chicago, IL 60606-6995  
(312) 899-0040 ext 5400  
[www.eatright.org/ACEND/](http://www.eatright.org/ACEND/) (<http://www.eatright.org/ACEND/>)

SUNY-Buffalo State's Dietitian Education Program is accredited by:  
The Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics  
120 South Riverside Plaza, Suite 2000  
Chicago, IL 60606-6995  
(312) 899-0040 ext 5400  
[www.eatright.org/ACEND/](http://www.eatright.org/ACEND/) (<http://www.eatright.org/ACEND/>)

<sup>2</sup> CAA , Council on Academic Accreditation in Audiology and Speech-Language Pathology, is the accrediting body of the American Speech-Language-Hearing Association (ASHA), <http://www.asha.org/academic/accreditation/>, of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, 800-498-2071 or 301-296-5700.

<sup>3</sup> The initial and advanced level education programs at SUNY Buffalo State are accredited by:  
The Council for the Accreditation of Educator Preparation (CAEP)  
1140 19th St NW, Suite 400  
Washington, D.C. 20036  
(202) 223-0077

<sup>4</sup> The Electrical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org> (<http://www.abet.org>)

## Honor Societies

*Sociology*  
Alpha Kappa Delta

*Career and Technical Education  
Technology*  
Epsilon Pi Tau

*Education*  
Kappa Delta Pi

*Economics*  
Phi Alpha Theta

*History*  
Phi Delta Kappa

*Nutrition and Food Science*  
Phi Upsilon Omicron

*French*

Pi Sigma Alpha

*Political Science*  
Psi Chi

*Psychology*  
Sigma Delta Pi

*Social Work*  
Phi Alpha

*Spanish*  
Sigma Pi Sigma

*Physics*  
Sigma Tau Delta English

## About SUNY Buffalo State

### A Place to Learn, Grow, and Prepare for Your Future

Each year, more than 8,000 students choose Buffalo State for its superb academic programs, applied learning opportunities, affordable tuition, and metropolitan location. Our goal is to inspire a lifelong passion for learning and to empower a diverse population of students to succeed as citizens of a challenging world. The college is recognized for its excellence in classroom teaching and scholarship and is known for its small class sizes—nearly 90 percent of all classes have fewer than 40 students. Buffalo State offers the perfect academic blend: small college learning environments coupled with large university opportunities.

### Celebrating 150 Years

In 1871, when the Buffalo Normal School opened its doors to its first class, the school's sole purpose was to train teachers to serve Buffalo's fast-growing student population in the public schools. Today, Buffalo State College is the largest comprehensive four-year college in the State University of New York system, educating undergraduate and graduate students in education, the arts, sciences, professional, and graduate studies. The college is known for its strong community engagement and continuing commitment to providing high-quality lifelong learning opportunities. Buffalo State is proud to celebrate 150 years of believing, inspiring, and achieving.

### Excellent, Comprehensive Academic Offerings

Buffalo State's wide array of 79 undergraduate programs and 64 graduate programs include several that are completely unique within the State University of New York (SUNY) system. The college's visual arts program is one of the largest and most comprehensive within SUNY. Building on its historical foundation as a teachers college, Buffalo State continues to earn national recognition for the quality of its teacher-preparation programs. All eligible academic programs are accredited.

### Quality Learning Environment

Buffalo State fosters a learning environment that focuses on advancing each student's potential. With one faculty member for every 15 students, students interact directly with qualified, committed instructors—four out of five hold the highest degrees in their fields.

Support programs assist students through mentoring, tutorials, workshops, and independent learning experiences. Honors curricula provide enrichment opportunities for advanced students. Campus resources address the specific needs of underrepresented students, students with disabilities, and adult learners.

#### Diverse Student Body

Buffalo State's students represent the largest and most diverse student body of the SUNY comprehensive colleges. The college enrolls significant proportions of nontraditional (adult), first-generation, and disadvantaged students with demonstrated potential.

#### Hands-on Career Preparation

Buffalo State and the Western New York community offer plenty of convenient opportunities for students to "learn by doing" through internships with local organizations.

Students gain valuable skills through involvement with applied undergraduate research opportunities, service-learning programs, and career development services sponsored by campus centers. The college has been nationally recognized for its efforts in community engagement and social mobility.

Students preparing to be teachers are involved in classrooms early in their academic careers, and they learn in a variety of educational settings—urban, rural, and suburban. Undergraduate students are encouraged to engage in original research, with assistance from faculty mentors.

Those who wish to learn by experiencing distant places and cultures can earn college credit by participating in a variety of study abroad and national student exchange opportunities.

#### Convenient, Attractive Campus

The college's park-like setting features 125 acres of landscaped green space and outdoor gathering spots, along with an eclectic mix of modern and traditional architecture. With 38 buildings on one campus, every destination is within easy walking distance. Forming a "town square" for the college community, four core buildings, including E. H. Butler Library and the Campbell Student Union, are situated around a central, open quadrangle.

#### Vibrant, Metropolitan Neighborhood

Home to the Burchfield Penney Art Center and the Performing Arts Center at Rockwell Hall, Buffalo State's campus is a featured attraction of Buffalo's cultural corridor. Nationally recognized recreational and cultural amenities are within easy walking distance, including the Albright-Knox Art Gallery and the historic 367-acre Delaware Park. Distinctive shops and restaurants help give the Elmwood strip its characteristic flavor.

#### Buffalo and Beyond

Buffalo State students enjoy all the advantages of living in New York State's second-largest metropolitan area, and the good word is out! Travel & Leisure ranked Buffalo #7 in 2021 Best Places to Visit for the extent of Buffalo's vibrant city development, restaurants, arts, and culture. Also known at the City of Good Neighbors, Queen City, City of Light, and Nickle City, Buffalo was listed #3 in 2017 America's Favorite Cities. Downtown Buffalo features national touring productions at Shea's Performing Arts Center, Triple-A minor-league baseball at Sahlen Field, Sabres hockey and

major concerts at KeyBank Center, and trendy night life. The NFL's Buffalo Bills play in nearby Orchard Park. Niagara Falls—one of the world's most visited natural wonders—is a half-hour away; cosmopolitan Toronto, Canada's largest city, is about a two-hour drive from campus.

#### The State University of New York

As a comprehensive public university, the State University of New York provides a meaningful educational experience to the broadest spectrum of learners. Nearly 400,000 students are pursuing traditional study in classrooms and laboratories or are working at home, at their own pace, through such innovative institutions as the SUNY Learning Network and Empire State College.

#### The Covenant

Buffalo State Is Committed to Providing:

##### **Superb Teaching Faculty**

Buffalo State faculty members are:

- Dedicated teachers.
- Nationally renowned scholars who bring the latest research to the classroom.
- Degreed professionals, not teaching assistants.
- Among the best in SUNY—more than 50 have received the SUNY Chancellor's Award for Excellence.

#### Innovative and Relevant Programs

- The Intellectual Foundations 2014 (IF 14) or core curriculum ensures that students have a broad-based education.
- The professional curriculum—the academic major—prepares students for career success.
- Accredited professional programs.<sup>1</sup>
- State-of-the-art technologies, facilities, and library.

<sup>1</sup> Copies of accreditation papers are on file and may be viewed upon request.

#### An Excellent Learning Environment

- The only SUNY campus in a major metropolitan area, offering exceptional cultural and recreational opportunities—all within walking distance.
- A dynamic and diverse faculty, staff, and student body.
- Strong student support and academic services, delivered by a committed professional staff.
- Outstanding library, with a strong technical and computing infrastructure.

The Buffalo State Student Is Committed to:

##### **First and Foremost, Being a Student**

Academics is the driving, paramount goal of student life. It means a dedication to study and being fully prepared for the classroom, laboratory, or studio.

##### **Making Progress Toward a Degree**

Advance through your program at the expected pace, whether you are a full-time, part-time, day, or evening student.

##### **Graduating Oath of Matriculation**

As a new student to Buffalo State, being now admitted to the rite of matriculation in baccalaureate studies, I do pledge to be an exemplary learner; to place the highest value on my

intellectual, personal, and professional growth; and to respect learning and knowledge.

My priority is to be an educated person, to make significant progress in my program of study, and to graduate. As a student at Buffalo State, I will conduct myself with dignity, honesty, and civility, respecting the views and diverse backgrounds of my teachers and peers, enhancing the quality of life of my community, and promoting the welfare and esteemed reputation of Buffalo State. This I pledge to myself.

## Facilities, Services, and Special Programs

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## Academic Commons

The Academic Commons at Buffalo State provides a range of advising and tutorial services to help support student success.

### Academic Advisement Center

Butler Library 149  
(716) 878-5223

[academiccommons.buffalostate.edu/advising](https://academiccommons.buffalostate.edu/advising) (<https://academiccommons.buffalostate.edu/advising/>)

The Academic Advisement Center assists students in making the academic and personal choices that help them identify and accomplish their educational, professional, and personal goals. The Academic Advisement Center serves all Buffalo State students.

### Tutoring Center

Butler Library 149-M  
(716) 878-5223

[academiccommons.buffalostate.edu/tutoring](https://academiccommons.buffalostate.edu/tutoring) (<https://academiccommons.buffalostate.edu/tutoring/>)

The Tutoring Center provides free peer tutoring and workshops for all Buffalo State students seeking extra help in their courses. Its team of peer tutors is ready to address questions regarding both coursework and scholarship. Tutors meet with students one-on-one or in small groups, handling an array of courses.

### Math Center

Butler Library 147

[academiccommons.buffalostate.edu/math-center](https://academiccommons.buffalostate.edu/math-center) (<https://academiccommons.buffalostate.edu/math-center/>)

The Math Center is a great resource for all student math-related questions. Both professional and peer tutors are available to help with questions about coursework.

### Writing Center

Butler Library 143

[academiccommons.buffalostate.edu/writing-center](https://academiccommons.buffalostate.edu/writing-center) (<https://academiccommons.buffalostate.edu/writing-center/>)

The Writing Center offers an array of free services to assist students throughout all stages of the writing process. Tutors are available to help students with brainstorming, drafting, revising, editing, and any other writing needs or questions. Walk in or make an appointment online during open hours.

## Academic Standards Office

Twin Rise 100  
(716) 878-5222

academicstandards.buffalostate.edu (<https://academicstandards.buffalostate.edu>)

The Academic Standards Office assists in upholding the academic policies of Buffalo State and maintaining the academic integrity of the college. The office provides assistance to students in interpreting academic policies and compliance standards that may affect their academic status or financial aid eligibility. Faculty and staff are encouraged to contact the Academic Standards Office for assistance in resolving academic petition appeals, academic misconduct cases, and academic standing issues.

## Academic Transition Programs

Twin Rise 100  
(716) 878-6640

[academicsuccess.buffalostate.edu/academic-transition-programs](https://academicsuccess.buffalostate.edu/academic-transition-programs) (<https://academicsuccess.buffalostate.edu/academic-transition-programs/>)

Buffalo State offers several programs and courses designed to help new students refine and strengthen academic skills that will serve as a basis for success. First-Year Convocation sets the academic tone for student entry to Buffalo State. Learning Communities (LC) provide a cluster of courses that incoming first-year students take in common around a central theme or concept. These courses fulfill many Intellectual Foundations general education requirements (p. 15).

In addition, LC students who are campus residents live in a shared residential area. All LC students—residential and commuter—have access to their own gathering places with computers and kitchens. They meet with other students, faculty, and professional staff members at special LC events. Courses, such as UNC 100 Mastering the Academic Environment and UNC 111 Career Planning: Theory and Practice, offer entering students access to small classes that assist with a successful transition to Buffalo State.

## Barnes & Noble at Buffalo State Bookstore

Campbell Student Union  
(716) 878-5509

[buffalostate.bncollege.com](https://buffalostate.bncollege.com) (<https://buffalostate.bncollege.com>)

The bookstore carries a wide range of merchandise, including textbook rental, new, used, and digital textbooks; trade books; special-order books; emblematic clothing; art, school, and office supplies; greeting cards; gifts and gift cards; computer supplies; and commencement student regalia and graduation gifts. The store features a Starbucks Cafe with wireless access. The store accepts cash, credit cards, and Bengal Bucks. A bookstore deferment program is available. The bookstore is a service of Barnes & Noble College Bookstores Inc.

## Burchfield Penney Art Center

(716) 878-6011

[burchfieldpenney.org](https://www.burchfieldpenney.org/) (<https://www.burchfieldpenney.org/>)

The Burchfield Penney Art Center collection includes 12,500 works by more than 700 artists from Western New York, including the largest public collection of works by Charles E. Burchfield. The Burchfield Penney has been dedicated to Western New York art since its inception in 1966, evolving through several name changes, locations on campus, and expanding acquisitions. Today, the modern museum is located at the corner of Elmwood Avenue and Rockwell Road, having opened to the public in November 2008. The \$33 million structure is the first new art museum to be built in Buffalo in more than a century and is the first "green" art museum in New York State.

The Burchfield Penney is accredited by the American Association of Museums. General admission is free to faculty, staff, and students of Buffalo State. Gallery hours are:

Day of Week	Hours
Wednesday, Thursday, Saturday	10:00 a.m. to 4:00 p.m.
Friday	10:00 a.m. to 7:00 p.m.
Sunday	12:00 to 4:00 p.m.

The Museum Store is open during gallery hours and offers one-of-a-kind gifts by Western New York artisans and merchandise celebrating Burchfield.

## Campbell Student Union

[sle.buffalostate.edu/hours-operation](https://sle.buffalostate.edu/hours-operation) (<https://sle.buffalostate.edu/hours-operation/>)

The Campbell Student Union is located in the center of campus and is the hub for student activity at Buffalo State. The building houses a number of amenities, including the Buffalo State Welcome Center, Barnes & Noble at Buffalo State Bookstore, retail and residential dining, lounges, and meeting rooms. Hundreds of events take place there annually including many hosted by student organizations. The student union also houses the offices of the Dean of Students, Bengal Card, Student Leadership and Engagement, United Students Government, and several student organizations.

## Buffalo State Dining Services

Campbell Student Union 223  
(716) 878-5152

[dineoncampus.com/bsc](https://www.dineoncampus.com/bsc) (<https://www.dineoncampus.com/bsc/>)

Buffalo State Dining understands and caters to the unique needs and expectations of today's college students. We ensure that each student's dining experience is distinctive, memorable, and satisfying. We nourish students with great food and healthy menu options and stimulate their minds by meeting and exceeding their expectations. Buffalo State Dining offers many dining locations throughout campus, including the Bengal Kitchen dining hall, Starbucks, Tech

Cafe, The PlanetariYUM, Market 1300, and a food court containing eight venues that include Subway, SPoT Coffee, Create Smoothies & Bubble Tea, True Burger, Sushi Do, 2.Mato, Tu Taco and Buffalo's very own Frank & Theresa's Anchor Bar! We understand the on-the-go lifestyle of our guests and have implemented our Boost Mobile Ordering app in the food court and Bengal Kitchen providing fast, quality dining solutions at the tap of a button.

Meal plans are available with many resident and commuter plan options. Meal plans are required for resident undergraduate students who have not reached junior status (60 credits). Each plan provides the convenience, variety, and savings that fit every student's needs. All dining locations accept tax-free dining dollars, credit cards, and Bengal Bucks. Cash is accepted at select locations. Go to [dineoncampus.com/bsc/](https://www.dineoncampus.com/bsc/), visit the Bengal Card Office, or call (716) 878-5152 to purchase a meal plan or to add funds to your student account.

## Career Development Center

Cleveland Hall 306  
(716) 878-5811

[cdc.buffalostate.edu](https://cdc.buffalostate.edu) (<https://cdc.buffalostate.edu>)

The Career Development Center (CDC) provides a full range of career counseling services to help students select a major, plan a career, apply to graduate school, and identify internship and employment opportunities. They also connect students with information about career options with Buffalo State majors. Assessment and exploration programs are available to assist in selecting a career well-suited to individual student interests, strengths, and other personal characteristics. In addition to hosting BengalLink ([https://buffalostate-csm.symplicity.com/students/?signin\\_tab=0](https://buffalostate-csm.symplicity.com/students/?signin_tab=0)), where students can find full-time, summer, and part-time jobs, as well as internship opportunities, the CDC links students with employers and successful alumni through job fairs, on-campus interviews, and job-search programs.

## Child Care Center (Buffalo State Child Care Center)

Buckham Hall  
(716) 878-5335

[childcarecenter.buffalostate.edu](https://childcarecenter.buffalostate.edu) (<https://childcarecenter.buffalostate.edu>)

The Buffalo State Child Care Center is open to children of Buffalo State students, faculty, and staff, as well as to children of community members. The center is accredited by the National Association for the Education of Young Children (NAEYC) and is licensed by the New York State Office of Children and Family Services. Children between the ages of 6 weeks and 5 years are accepted on a first-come, first-served basis. A summer school-age program is also available for children up to age 12. The center is committed to providing developmentally appropriate programs in a safe, predictable environment, where children can develop socially, emotionally, cognitively, and physically.

## Civic and Community Engagement Office

South Wing 120  
(716) 878-3919

[cce.buffalostate.edu](https://cce.buffalostate.edu) (<https://cce.buffalostate.edu>)

The Civic and Community Engagement Office (CCE) inspires lives of active citizenship and social responsibility. Buffalo State students access a wide range of opportunities to become active citizens and leaders through programs and events such as Alternative Break, voter engagement, and Bengals Dare to Care. The CCE also supports service-learning courses that connect students with opportunities to apply what they learn in the classroom with making a positive impact in the community.

## College Writing Program

Ketchum 213  
(716) 878-5416

[writing.buffalostate.edu](http://writing.buffalostate.edu) ([http://writing.buffalostate.edu/](http://writing.buffalostate.edu))

The College Writing Program oversees the scheduling, placement practices, and pedagogical directions of the Basic Communication writing courses required of all Buffalo State undergraduate students: CWP 101 and CWP 102.

The College Writing Program also provides support for upper-level writing-infused courses that satisfy the Intellectual Foundations 2014 (IF 14) Writing Across the Curriculum requirement and collaborates with the Writing Center located in the Butler Library Academic Commons.

## Continuing Professional Studies

Cleveland Hall 210  
(716) 878-5907

[continuingstudies.buffalostate.edu](https://continuingstudies.buffalostate.edu) (<https://continuingstudies.buffalostate.edu>)

Continuing Professional Studies is the campus resource for a wide variety of programs that serve multiple campus and community constituencies. In partnership with on-campus academic departments and also community-based entities, the office provides high-quality credit and noncredit courses, workshops, and certificate programs using a variety of locations, schedules, and technologies. The College Access Program (CAP) is housed within Continuing Professional Studies, collaborating with school districts across New York State to engage high school students in earning college credits while also working with those districts to provide additional teaching credentials to instructors in support of changing programmatic needs. Office staff provide assistance in developing and implementing specialized programming to meet current and evolving workforce needs.

Continuing Professional Studies is the campus resource for credit for experiential learning options, including the College-

Level Examination Program (CLEP) and Miller Analogies Test (MAT).

## Dean of Students

Campbell Student Union 311  
(716) 878-4618  
[deanofstudents.buffalostate.edu](https://deanofstudents.buffalostate.edu) (<https://deanofstudents.buffalostate.edu>)

The Dean of Students Office supervises the areas of Inclusion and Equity, Residence Life, Student Conduct and Community Standards, Student Leadership and Engagement, Sexual Violence and Prevention Education, and student needs such as the Emergency Grant and Milligan's Food Pantry. The Dean of Students Office provides leadership for defining and promoting campuswide expectations that are expressed through the Buffalo State Compact for a Civil and Caring Academic Community (<https://deanofstudents.buffalostate.edu/compact-civil-and-caring-academic-community/>). The compact is a set of principles that describes how those who live, study, and work together as members of the college community should treat each other—with civility and respect, with care and concern, and with a commitment to the academic purpose for which Buffalo State exists. The compact is meant to foster conversation, interaction, and reflection on behavior as a way to promote understanding of self and others in the context of a shared community. Use of the compact is encouraged to help promote the expectations arising from its premise that Buffalo State is and should be a community grounded on the principles of civility and care.

The dean of students works closely with students and student groups to further their intellectual, emotional, and social development. The dean serves as an advocate for the rights of students; offers individual student support; provides programs, services, and co-curricular opportunities; contributes to policy development; and serves as the Title IX Deputy Coordinator assisting to ensure compliance with student rights under Title IX of the Civil Rights Act. The dean of students convenes a Students of Concern Care Team (<https://deanofstudents.buffalostate.edu/care-team/>) to respond when a student's behavior appears troubled or disturbed and is creating cause for concern. The Students of Concern Care Team is comprised of a selection of administrators and staff across campus, investigates reports, and determines appropriate action or referral to best assist our students.

## Educational Opportunity Program

South Wing 710  
(716) 878-4225

[eop.buffalostate.edu](https://eop.buffalostate.edu) (<https://eop.buffalostate.edu>)

The Arthur O. Eve Educational Opportunity Program (EOP) was established in 1967 to fulfill New York State's commitment to access to higher education. The program is for students of all racial and ethnic backgrounds who have the talent and ability to succeed in college but have been placed

at a disadvantage for access by financial and academic circumstances.

## Equipment Loan

Bulger Communication Center 204  
(716) 878-4535

### A/V Equipment Loan Service Request

Classroom Equipment Loan provides various types of A/V equipment for use on campus—including sound systems, phone conferencing devices, banner stands, and A/V accessories. The office also offers training and consultation for event setups involving audio or video needs. Faculty, staff, students, and student groups at Buffalo State can borrow equipment for on-campus use, free of charge. Please note that the office is unable to provide walk-in service. All services are by appointment only.

## Global Engagement Office

South Wing 410  
(716) 878-5331

[international.buffalostate.edu](https://international.buffalostate.edu) (<https://international.buffalostate.edu>)

The Global Engagement Office is home to the Center for China Studies, International Student and Scholar Services, the Intensive English Language Institute, Sponsored International Programs, and Study Away (International Education). The office's mission is to provide leadership for the comprehensive internationalization of the Buffalo State community by fostering the growth and development of our international programs and services. By leading the charge for campus internationalization—where immersive cultural experiences both locally and globally impact students' abilities to respectfully engage with and learn from difference—we can meet the challenges of a globally connected society and be good citizens and stewards of the world.

### Center for China Studies

South Wing 430  
(716) 878-6328

[ccs.buffalostate.edu](https://ccs.buffalostate.edu) (<https://ccs.buffalostate.edu>)

The Center for China Studies promotes and coordinates research, scholarly exchanges, academic programs, and economic development with China. Center activities advance the intellectual, personal, and professional growth of students, faculty, staff, and the general community by providing an international perspective regarding China in the context of an ever-changing and diverse world.

### International Student and Scholar Services

South Wing 410  
(716) 878-5331

[issb.buffalostate.edu](https://issb.buffalostate.edu) (<https://issb.buffalostate.edu>)

The International Student and Scholar Services Office (ISSS) supports international students with services that include academic advisement; personal counseling; assistance with visas, work permits, and Curricular Practical Training/

Optional Practical Training (CPT/OPT); and compliance with regulations from the Department of Homeland Security. An international orientation program is provided for new international students at the beginning of each semester. ISSS coordinates the Visiting Scholars Program, Global Mentor Program, and the college's annual International Alumni event. The office organizes international cultural events, workshops, and seminars throughout the year on campus with special programming during International Education Week each November.

### Intensive English Language Institute

South Wing 430  
(716) 878-5331

[international.buffalostate.edu/ieli](https://international.buffalostate.edu/ieli) (<https://international.buffalostate.edu/ieli/>)

The Intensive English Language Institute (IELI) administers the English as a Second Language (ESL) program at Buffalo State. Students whose first language is not English participate in the ESL program to develop the language skills in reading, writing, listening, and speaking they need to succeed in their academic programs. This non-degree, non-credit-bearing program is particularly useful for students seeking admission to an academic program at Buffalo State as they prepare to enhance their language skills.

### Sponsored International Programs

South Wing 420  
(716) 878-3855

[international.buffalostate.edu/sponsored-international-programs](https://international.buffalostate.edu/sponsored-international-programs) (<https://international.buffalostate.edu/sponsored-international-programs/>)

Buffalo State's Sponsored International Programs office supports students, faculty, and staff in seeking funding, applying to, and participating in international research opportunities, mainly the Fulbright and the Rhodes Scholar programs. To date, 17 Buffalo State faculty from a wide range of disciplines have been selected to participate in the Fulbright Program. The ultimate promise of the Fulbright Program is to increase mutual understanding between the people of the United States and people around the world. Buffalo State proudly plays a part in this process. The Rhodes Scholarships are the oldest and most celebrated international fellowship awards in the world, with the program annually selecting 32 young students from the United States. These Rhodes Scholars are chosen for their outstanding scholarly achievements, as well as for their character, commitment to others and to the common good, and for their potential for leadership in whatever domains their careers may lead.

### Study Away (International Education)

South Wing 430  
(716) 878-4620

[studyabroad.buffalostate.edu](https://studyabroad.buffalostate.edu) (<https://studyabroad.buffalostate.edu>)

The International Education Office provides a variety of programs to accommodate the differing needs of Buffalo State Students.

**Faculty-led Programs:** Faculty-led programs are credit-bearing study abroad experiences that are developed and led

by Buffalo State faculty and/or staff. These programs deliver specific Buffalo State courses and are completed partially or entirely abroad, tending to include time abroad from one to six weeks.

**International Exchange programs:** International Exchange programs allow Buffalo State students to study for a semester or academic year at one of many partner institutions abroad. Participants take courses with local students at the host institution on a space available basis. Buffalo State students continue to pay Buffalo State full-time tuition and fee rates as they normally would according to their residency.

**Study Abroad programs:** Students participating in study abroad programs do not exchange places with students from partner universities and therefore pay tuition and fees at host institution rates. If a student desires to study at an exchange partners institution and all the spaces have been filled, the student will still be able to attend the university as a study abroad participant.

**National Student Exchange (NSE):** NSE provides accessible collegiate study away to undergraduate students at member colleges and universities in the United States as well as Canada, Guam, Puerto Rico, and Virgin Islands. Students can take classes not available at Buffalo State, experience different geographic and cultural settings, investigate potential graduate schools, make connections in a potential job market, and much more.

**State University of New York (SUNY) programs:** Students unable to find a program offered through Buffalo State that meets their academic needs are eligible to participate in a program offered through another SUNY institution.

## Great Lakes Center

Science and Mathematics Complex 319, and  
Field Station on Porter Avenue, Buffalo  
(716) 878-4329

[greatlakescenter.buffalostate.edu](https://greatlakescenter.buffalostate.edu) (<https://greatlakescenter.buffalostate.edu>)

The Great Lakes Center (GLC) mission is to improve the quality of the environment by providing comprehensive and up-to-date science to enhance and sustain the ecological function of the Great Lakes' ecosystems into the future. Facilities include a complex of laboratories on the Elmwood Avenue campus, an aquatic research laboratory (field station) on a 7.5-acre site at the junction of Lake Erie and the Niagara River, and a fleet of research vessels.

Graduate students can complete either an M.A. or M.S. program in Great Lakes environmental science. Undergraduates can take several undergraduate courses through the Biology and other departments that feature field trips to local streams or to the field station, opportunities to learn how to use laboratory or field sampling equipment, learning aboard one of the boats, or even just enjoying the beautiful waterfront scenery.

The GLC supports research at Buffalo State, securing millions of dollars in external research funding over its history. Eighteen full-time faculty and staff and more than 25 affiliated faculty from eight academic departments at Buffalo State conduct research in aquatic ecology, fisheries,

environmental toxicology and chemistry, urban ecology, watershed dynamics, and environmental education. More than 100 scientists from across the U.S. and internationally conduct collaborative research. The GLC provides excellent opportunities for Buffalo State undergraduate and graduate students to participate in various research and educational projects related to the Great Lakes environment and annually employs more than 40 students, research assistants, and seasonal employees.

## Honors Programs

### **Muriel A. Howard Honors Program**

South Wing 330  
(716) 878-3093

[honors.buffalostate.edu \(https://honors.buffalostate.edu/\)](https://honors.buffalostate.edu/)

The Muriel A. Howard Honors Program admits students who have excelled in high school or early in their college experience. It is an academically rewarding experience that includes engaging speakers and social events, priority housing in a newly renovated residence hall, priority registration, and access to an honors study suite and computer lab. Students in this program may be rewarded with scholarships and awards and follow a specially designed curriculum that transforms their college experience. Honors students are required to maintain a minimum 3.3 cumulative GPA and complete seven honors courses that include a 1-credit freshman honors seminar, an honors senior seminar, and five specially designed general education courses. An applied learning component (research, creative project, internship, service project, or study abroad) is also required and is often satisfied through major requirements.

## Information Technology

IT Help Desk  
E.H. Butler Library, First Floor  
(716) 878-4357

[it.buffalostate.edu \(https://it.buffalostate.edu\)](https://it.buffalostate.edu)

Information Technology supports computing hardware, software, and networking for instruction, research, and administrative activities on campus. Public and department-specific networked labs are available for student use. Secure and guest wireless access are available across campus. Labs are equipped with up-to-date computers and a variety of standard and curriculum-specific state-of-the-art software to support the educational needs of the campus. The IT Knowledge Base (<https://buffalostate.teamdynamix.com/TDClient/2003/Portal/KB/>) provides answers to campus computing and technology related questions. Visit the IT Service Catalog (<https://buffalostate.teamdynamix.com/TDClient/2003/Portal/Requests/ServiceCatalog/>) for additional information and supporting materials. The campus community may also visit or call the Help Desk for assistance.

## Instructional Design and Training

Butler Library 315

(716) 878-3877

[instructionaldesign.buffalostate.edu \(https://instructionaldesign.buffalostate.edu\)](https://instructionaldesign.buffalostate.edu)  
IT Portal (<https://buffalostate.teamdynamix.com/TDClient/2003/Portal/Home/>)

Instructional Design and Distance Learning provides faculty support with the design and development of online, hybrid, and web-enhanced courses and modules along with the use of technology in and out of the classroom. Workshops offered support best practices within education to improve the quality of the educational experiences for students and faculty at Buffalo State.

Additional assistance with Blackboard Learn and Collaborate Ultra is available through the SUNY Online Support Services Help Desk, 1-844-673-6786 (1-844-OPENSUNY), or by submitting an online request through the Open SUNY website (<https://online.suny.edu/help/>).

## Intellectual Foundations

[intellectualfoundations.buffalostate.edu \(http://intellectualfoundations.buffalostate.edu/\)](http://intellectualfoundations.buffalostate.edu)

The Intellectual Foundations program (IF) is the general education program at Buffalo State. Serving as the college's liberal arts curriculum, IF promotes an understanding of the continuity of human history, the depth of inherited knowledge, the validity of diverse modes of inquiry, the value of artistic expression, and the richness of our collective experience. Its purpose is to develop the skills and habits of the mind required for a life of intellectual curiosity and civic engagement.

Refer to DOPS Policy I:04.00 (<http://bscintra.buffalostate.edu/dops/policysect1/010400.pdf>)

## Intercollegiate Athletics

Houston Gym 248  
(716) 878-6533

[buffalostateathletics.com \(https://www.buffalostateathletics.com\)](https://buffalostateathletics.com)

Buffalo State's 70,000-square-foot Sports Complex is home to the NCAA Division III Buffalo State Bengals and includes the Sports Arena, Ice Arena, Houston Gymnasium, and Kissinger Pool. The Sports Arena boasts a 3,500-seat basketball arena, a one-tenth-mile (160-meter) indoor track, the 1,800-seat Ice Arena (Buffalo's only collegiate ice rink), and the Buffalo State College Intercollegiate Athletics Hall of Fame. Houston Gym includes the Kissinger Pool natatorium; a state-of-the-art fitness center with \$500,000 in equipment; a multi-purpose room; and basketball, racquetball, and volleyball courts. Surrounding athletics facilities include Coyer Field and press box for football, lacrosse, and soccer competition with spectator bleacher seating for 3,000; a softball field; practice fields; and a quarter-mile (400-meter) outdoor track.

Men's Division III sports include basketball, cross country, football, ice hockey, soccer, swimming and diving, and track and field. Women's Division III sports include basketball, cross country, ice hockey, lacrosse, soccer, softball, swimming and diving, track and field, and volleyball. The athletics



department also supports a co-ed cheerleading team. Students can sign up for intramural activities (including team and individual sports) or use athletic facilities with a valid Buffalo State ID.

## Library (E. H. Butler Library)

(716) 878-6300

[library.buffalostate.edu](https://library.buffalostate.edu) (<https://library.buffalostate.edu>)

Butler Library is committed to providing welcoming and inclusive spaces, services, and resources that support learning, research, and creativity at Buffalo State. With access to millions of scholarly resources, including books, journals, videos, and more, Butler Library serves as the academic heart and hub of the campus.

The library is home to a variety of specialized collections, including the Curriculum Materials Lab, which contains books for children and adolescents, and the Creative Studies Library, a one-of-a-kind collection that supports creativity at Buffalo State. Archives and Special Collections houses scores of unique and rare collections of local importance, regional interest, and national significance. Librarians are available to answer questions, locate materials, and provide research assistance, both in person and online.

Butler Library is an ideal place for both the serious researcher and the casual reader. The three-story building provides a variety of options for individual and group work, including reservable group study rooms, individual study carrels, and quiet areas. The StudyQuad computer lab is open 24/7 during the fall and spring semesters. Our technology-enhanced spaces feature desktop computers, specialized software, scanners, printers, and an assistive technology lab. Laptops and other technology equipment are also available for check-out.

The Academic Commons on the first floor of the library brings together a variety of additional support services to meet the academic needs of all students. It houses the Advising Center, Writing Center, Math Center, EOP Academic Center for Excellence, IT Help Desk, and Student Accessibility Services, also with spaces for one-on-one and group tutoring. A full-service Starbucks allows students to relax and fuel up for long study sessions without having to leave the building.

## Orientation

Student Leadership and Engagement

Campbell Student Union 400

(716) 878-4631

[sle.buffalostate.edu/orientation](https://sle.buffalostate.edu/orientation/) (<https://sle.buffalostate.edu/orientation/>)

New Student Orientation programming enhances the experience of first-year students, transfer students, and their families in their transition to Buffalo State. A comprehensive collegewide orientation program introduces students to a wide range of opportunities available at Buffalo State and integrates them into life at the college.

## Performing Arts Center

Rockwell Hall 210

Box Office: (716) 878-3005

[buffalostatepac.org](https://buffalostatepac.org) (<https://buffalostatepac.org>)

[rhpac@buffalostate.edu](mailto:rhpac@buffalostate.edu)

The Performing Arts Center (PAC) at Rockwell Hall is an 856-seat multipurpose theater that enhances the cultural vitality of the Buffalo State campus and Western New York community. Newly renovated in 2019, The PAC hosts a variety of events each year. Lectures, concerts, musicals, and more highlight the annual calendar of more than 180 events in a typical year, attracting over 50,000 guests including students, faculty, staff, and community members from Buffalo and beyond. The Great Performers Series showcases world-class artists from a diverse range of performance genres. The Buffalo State Music Department presents dozens of concerts each year at the PAC, featuring the Philharmonia; Percussion, Wind, and Jazz ensembles; and Choral presentations. The PAC Box Office also provides ticketing services for Casting Hall productions and United Students Government events.

## Pre-Law Advisement

Science and Math Complex 332

(716) 878-520

[Booskg@BuffaloState.edu](mailto:Booskg@BuffaloState.edu)

Buffalo State provides pre-law advisement to assist students who plan to attend law school upon earning a Buffalo State bachelor's degree. Faculty members knowledgeable in the legal profession are available for consultation on recommended undergraduate courses and activities, the Law School Admission Test (LSAT), and law school admissions practices.

## Pre-Medical and Pre-Health Professional Advisement

Science and Math Complex 332

(716) 878-5203

[Booskg@BuffaloState.edu](mailto:Booskg@BuffaloState.edu)

Health professions schools require strong undergraduate preparation in the sciences. Buffalo State offers all the courses (biology, chemistry, mathematics, and physics) required for admission to medical, dental, osteopathic, veterinary, optometry, podiatry, chiropractic, and other health professions schools. Individual schools have their own requirements, and Buffalo State offers a course of study that should meet the requirements of any health professions school. The entrance examinations for medical, dental, and other health professions schools test for mastery of material from these courses.

It is very important that students who are interested in the health professions contact the pre-health adviser as soon as possible (freshman or sophomore year) to begin the advisement process and to plan the application process. The pre-health professions adviser and the Pre-Health Advisory Committee assist students who are interested in entering one of the health professions by providing advice

about prerequisites, course selection, and appropriate extracurricular activities such as research and summer internships. The committee assists with the application process and preparing supporting materials for student applications.

## Reserve Officers' Training Corps

Veteran and Military Services, Inclusion and Equity Office  
Campbell Student Union 417  
(716) 878-3504

Veterans and Military Services (<https://inclusion.multistg.buffalostate.edu/veterans-and-military-services-0/>)  
vetservices@buffalostate.edu

U.S. Army Reserve Officers' Training Corps (ROTC) classes are offered at Buffalo State through Canisius College. Military science classes introduce students to United States Army leadership principles and basic military concepts. Military science classes are offered free of charge to all interested, and no commitment or obligation is required. Students may enroll in these courses during the Buffalo State registration period. For general program information, contact Battalion Recruiting Officer Rebecca Sparacino, LTC, Retired, at Canisius College, (716) 888-3239, [rotc1@canisius.edu](mailto:rotc1@canisius.edu). For on-campus information at Buffalo State, contact the Veteran and Military Services Office.

## Residence Life Office (On-Campus Housing)

Bengal Hall  
(716) 878-3000

[residencelife.buffalostate.edu](https://residencelife.buffalostate.edu) (<https://residencelife.buffalostate.edu>)

Buffalo State offers a variety of on-campus housing options, including traditional-style housing for first-year students (Bengal, Cassety, Neumann, and Perry halls); suite-style facilities primarily for sophomores, juniors, and seniors (Towers 1#4, North Wing); and fully furnished apartments for sophomores, juniors, and seniors (Moore Complex and the Student Apartment Complex). Bishop Hall houses the Honors Residence and is open to Muriel A. Howard Honors Program-eligible students from all class years. Family College is housed in the Moore Complex and is available for students with dependent children under the age of 18. Year-round housing is available for some students.

All residence halls are smoke free and have security cameras and electronic entry systems at all entry and exit doors. Residence hall staff guide students in their living environment; promote student health and safety; and provide encouragement, support, and assistance when needed.

### Buffalo State Housing Residency Requirement

All full-time, first-year and second-year undergraduate students whose permanent residences are beyond a 35-mile radius of Buffalo State are required to reside on campus **for four consecutive semesters or until 60 credits have**

**been earned at Buffalo State** whichever comes first. Pre-college credits, advanced placement credits, CLEP credits, and the like are not considered toward the 60-credit minimum. Exemptions from this requirement include married students, single parents, veterans, students over the age of 21, and students commuting from the home of their parent(s) or court appointed guardian(s) if within a 35-mile radius of the college. For an exemption, the home address must be the address listed on the college application. Living with a family member who is not a parent or legally appointed guardian does not meet the requirements to live off campus. Additionally, students who change their address to that of a local housing entity cannot qualify for an exemption unless they can demonstrate with two forms of proof (e.g., utility bill, medical bill, current paystub) that it is a permanent residence with their parent or legal guardian.

### Parking Information for Resident Students

First- and second-year undergraduate students who reside in Buffalo State residence halls are not permitted to register or park a vehicle on campus. All students who reside off campus, regardless of level and including first- and second-year students, may register a vehicle for on-campus parking.

Pre-college credits, advanced placement credits, CLEP credits, and similar credits are not relevant to this regulation. Any credit awarded for coursework taken prior to high school graduation or during the summer does not change student status as it relates to being a first- or second-year student.

Students entering their third year (i.e., fifth semester) at Buffalo State are eligible to register and park a vehicle on campus. Students who begin as sophomores in the spring semester of an academic year are permitted to register and park a vehicle on campus for the coming fall semester, even though they may not have accumulated sufficient credits to attain junior standing.

### Exceptions to Resident Student Parking Rules

Exceptions to parking registration rules for resident freshmen and sophomores will be considered for the following reasons:

*Medical:* Requires a letter from a licensed physician indicating a legitimate medical need. This letter should explain in detail the nature of the problem, the reason(s) for the student to have ready access to his/her own transportation, and the time frame being projected for this need.

*Employment:* Freshmen and sophomores are strongly encouraged to find employment either on campus or in the local community. Appeals for employment purposes should include a signed letter on company letterhead from the employer stating days and hours of employment. Letter must include the employer's telephone number. A current payroll stub also may be required.

*Academic:* Requires a legitimate written justification from a faculty member stating the reason for exception. A description of an approved off-campus credit-bearing program must be included.

Other exceptional circumstances will be considered by the Parking Appeals Committee. Requests for exceptions to this policy are to be submitted in writing by the student to: Director of Parking Services, Buffalo State College, Moot Hall 260, 1300 Elmwood Avenue, Buffalo, NY 14222.

Requests are reviewed by the Parking Appeals Committee with decisions final and not subject to further appeal.

All waivers to this policy will be issued for a specific period of time as determined by the committee. The waiver will be revoked if a student who has been issued a waiver to this policy receives a violation to the campus parking policy.

## Say Yes

Twin Rise 100  
(716) 878- 5937

[academicsuccess.buffalostate.edu/say-yes-program](https://academicsuccess.buffalostate.edu/say-yes-program) (<https://academicsuccess.buffalostate.edu/say-yes-program/>)

Say Yes to Education has partnered with 20 colleges and universities in Western New York aimed at making higher education a reality for Buffalo Public and Charter school students. Say Yes Buffalo is a tuition-only guarantee.

Eligibility for Say Yes is determined after all other grants and scholarships are applied to the tuition component of the student's bill. The Say Yes program at Buffalo State supports students in various ways, such as a college credit-bearing summer program for incoming students, ongoing academic and social support throughout the academic year, and academic progress monitoring.

## Speech-Language-Hearing Clinic

Caudell Hall 316  
(716) 878-3530

[speech.buffalostate.edu/speech-language-hearing-clinic](https://speech.buffalostate.edu/speech-language-hearing-clinic) (<https://speech.buffalostate.edu/speech-language-hearing-clinic/>)

The Buffalo State College Speech-Language-Hearing Clinic provides speech, language, and hearing services to individuals of all ages. Services are provided by graduate students in the Speech-Language Pathology Department under the direct supervision of faculty and professional staff who are licensed by New York State and hold the Certificate of Clinical Competence from the American Speech-Language-Hearing Association.

State-of-the-art equipment aids clinic staff in the diagnosis and remediation of a variety of disorders, including articulation and phonological disorders; language impairments in children; aphasia; hearing, voice, and fluency disorders; and traumatic brain injury. Staff also work with individuals who wish to modify their accents. Services are free to Buffalo State faculty, staff, and students.

The Speech-Language-Hearing Clinic does not discriminate in the delivery of clinical services on the basis of race or ethnicity, gender, age, religion, national origin, sexual orientation, or disability.

## Student Accessibility Services Office

Butler Library 160  
(716) 878-4500

[sas.buffalostate.edu](https://sas.buffalostate.edu) (<https://sas.buffalostate.edu>)

Buffalo State ensures access to its academic programs, services, and activities on campus to otherwise qualified individuals with disabilities in accordance with guidelines established by the Rehabilitation Act of 1973, Section 504, and by the Americans with Disabilities Amendment Act of 2009. Student Accessibility Services provides advocacy and coordinates appropriate accommodations for students with disabilities. Students seeking services should contact the Student Accessibility Services Office and provide appropriate disability-related documentation. Students who believe they may have an undiagnosed disability should contact the office for referral to the appropriate resources.

## Student Conduct and Community Standards Office

Bengal Hall 14  
(716) 878-3051

[studentconduct.buffalostate.edu](https://studentconduct.buffalostate.edu) (<https://studentconduct.buffalostate.edu/>)

The Student Conduct and Community Standards Office is committed to promoting student accountability and instilling a sense of civic responsibility through the enforcement of the Student Code of Conduct (<https://studentconduct.buffalostate.edu/student-code-conduct/>). The code is administered by the Student Conduct and Community Standards Office to provide students with a due process review of any complaints made by or against them. #Hearing#boards comprise students, faculty, and staff and consider evidence and issue findings to respond to disciplinary violations.

Buffalo State encourages students to practice positive and productive behavior both in and outside the classroom. Students are responsible for reading, understanding, and abiding by the policies outlined in the code, and the office works with multiple departments across campus to address student concerns and provide support where needed.

## Student Government (United Students Government)

Campbell Student Union 402  
(716) 878-6701

[usg.buffalostate.edu](https://usg.buffalostate.edu) (<https://usg.buffalostate.edu>)

The United Students Government (USG) has represented Buffalo State students since 1971. USG is headed by students who are elected each year by the undergraduate student body, is maintained with the support of a professional staff, and is funded through the mandatory student activity fee. In addition

to the operational activities of student government, USG supports over 40 funded and recognized student organizations, each providing general and specialized events and activities for students with diverse interests.

USG consists of three operating branches of governance: the executive branch, responsible for establishing long-term goals for student government; the senate, the legislative branch of USG; and the judicial council. All undergraduate students are members of USG and are eligible to run for any elected position for which they are qualified. Senate meetings are held every Tuesday night during the academic year at 8:45 p.m. in Bulger Communication Center and are open to the general student body.

## Student Leadership and Engagement

Campbell Student Union 400  
(716) 878-4631

[sle.buffalostate.edu](https://sle.buffalostate.edu) (<https://sle.buffalostate.edu>)

Student Leadership and Engagement is committed to an inclusive student-centered environment that creates educational experiences for students and that promotes leadership, involvement, learning, and success. The office collaborates with students, faculty, staff, alumni, and community leaders to provide innovative and purposeful programs to prepare students for a diverse and changing world.

### Activities and Organizations

Activities and Organizations supports more than 70 student organizations on campus, registering all student organizations and overseeing the recognition process required of all new student organizations that seek to be affiliated with the college. The office provides numerous services to all student organizations, including advisement, co-sponsorship opportunities, and leadership development. Buffalo State is dedicated to enhancing the development of students through membership in campus-approved Greek organizations. Each fraternity and sorority offers students the opportunity to be part of their close-knit communities that promote leadership, service, and academic excellence. Staff support initiatives dedicated to scholarship, service, community advocacy, philanthropy, safety, and wellness.

### Campbell Student Union

The Campbell Student Union is located in the center of campus and is the hub for student activity at Buffalo State. The building houses a number of amenities, including the Buffalo State Welcome Center, Barnes & Noble at Buffalo State Bookstore, retail and residential dining, lounges, and meeting rooms. Hundreds of events take place there annually including many hosted by student organizations. The student union also houses the offices of the Bengal Card Office, Dean of Students, Student Leadership and Engagement, United Students Government, and several student organizations.

### Orientation

New Student Orientation programming enhances the experience of first-year students, transfer students, and their

families in their transition to Buffalo State. A comprehensive collegewide orientation program introduces students to a wide range of opportunities available at Buffalo State and integrates them into life at the college.

### ROAR to Success

The Recognizing Opportunities Achieving Results program (ROAR) provides advocacy and customized support to first-year students. This effort is designed to ensure that first-year students have what they need to be successful, which aligns with the college's mission to empower students to succeed. Currently, any prospective first-year students who confirm their attendance at Buffalo State and are not enrolled in any other support programs on campus are eligible to participate. Students who are accepted to Buffalo State through the Honors Program, Educational Opportunity Program (EOP), or as international students are currently ineligible for services through the Roar to Success program.

## Transportation and Safety Services

Parking Services Office

Moot Hall 260  
(716) 878-3041

Transportation Services (<https://financeandmanagement.buffalostate.edu/transportation-services/>)

As an urban campus, Buffalo State is a very accessible, walkable college located in a vibrant district that is surrounded by trendy cafes, restaurants, shops, and Victorian-styled housing.

Information on various modes of transportation for traveling to and from Buffalo State, campus parking, and much more, is accessible through the Transportation and Safety Services (<https://financeandmanagement.buffalostate.edu/transportation-services/>) website.

Refer also to Buffalo State Parking (<https://suny.buffalostate.edu/parking/>) information, including parking permits, rules, and regulations.

## Undergraduate Research Office

Twin Rise 100  
(716) 878-3093

[undergraduateresearch.buffalostate.edu](https://undergraduateresearch.buffalostate.edu) (<https://undergraduateresearch.buffalostate.edu>)

The Undergraduate Research Office coordinates campus efforts to encourage and support research and creativity in ways that build on scholarly and creative interaction among students and faculty. Undergraduate Research sponsors an array of programs: the Student Research and Creativity Conference (SRCC) held on campus each spring to showcase both undergraduate and graduate projects; the Early Undergraduate Research Opportunity (EURO) program, which awards stipends to lower-division students for work

as faculty research assistants; Small Grant Awards to assist undergraduates in conducting research and creative activities during the academic year; Travel Awards for professional conference presentations; and Undergraduate Summer Research Fellowships for independent student projects under faculty mentorship each summer.

## University Police

Chase Hall 100  
(716) 878-6333

[police.buffalostate.edu](https://police.buffalostate.edu) (<https://police.buffalostate.edu>)

The State University Police Department at Buffalo State is the law-enforcement agency responsible for crime prevention and control, criminal investigations, traffic and parking supervision, physical plant security, disaster coordination, community policing, and the maintenance of public order. The department offers many special services, including personal-safety awareness education, a motorist assistance program, a safety escort service, and a found-property department.

To make arrangements for educational programs, complete the request form (<https://police.buffalostate.edu/educational-programs/>).

### Crime Statistics Availability

A copy of the Buffalo State campus crime statistics as reported annually to the U.S. Department of Education will be provided upon request. Direct all requests to:

Chief of University Police  
Chase Hall, Buffalo State College  
1300 Elmwood Avenue  
Buffalo, NY 14222

(716) 878-6332

Information also can be obtained from the U.S. Department of Education (<https://ope.ed.gov/campusafety/>) website or the University Police (<https://police.buffalostate.edu>) website.

### Parking Rules and Regulations

Parking Services Office  
Moot Hall 260  
(716) 878-3041

The rules governing motor vehicles on campus are intended to ensure maximum pedestrian and vehicular safety and to establish the most convenient arrangements possible for students, staff, and visitors. Motor vehicles may park in any of the designated areas shown on the campus map. Only vehicles with special permits authorizing them to park in spaces designated for persons with disabilities are allowed to park in such spaces. All vehicles parked on the grounds of Buffalo State must display valid college parking permits.

Maps and parking permits are available in the Parking Services office, Moot Hall 260, and online (<https://suny.buffalostate.edu/parking/>).

### Parking is prohibited

- on all roadways,
- in all fire lanes,
- on lawns, grass, or grounds,

- on or over painted lines in parking areas or crosswalks, and
- in such a way as to interfere with free and proper use of a roadway or pedestrian crossings.

UPD may authorize towing of any vehicle found to be in violation of the college's rules and regulations. Violations will result in parking fines and/or summonses. The college assumes no responsibility for automobiles and/or their contents. Rules regarding parking for persons with disabilities are strictly enforced. Parking tickets may be paid online (<https://suny.buffalostate.edu/parking/>) or in the Parking Services Office, Moot Hall 260, by Visa or MasterCard; or through U.S. mail by check or money order. Mail payments to Buffalo State Parking Services, Moot Hall 260, 1300 Elmwood Avenue, Buffalo, NY 14222.

## Veterans and Military Services Office

Veterans and Military Services, Inclusion and Equity Office  
Campbell Student Union 417  
(716) 878-3504

Veterans and Military Services (<https://inclusion.multistg.buffalostate.edu/veterans-and-military-services-0/>)  
[vetservices@buffalostate.edu](mailto:vetservices@buffalostate.edu)

The Veterans and Military Services Office provides one-stop support services for military aligned students entering college. The office coordinates support services for current and prospective students who are veterans, Reserve/Guard servicemembers, and/or military dependents (spouses/children). Support services include recruitment and advisement, admissions processing and financial aid counseling, GI Bill certification, and official advisement to the Student Veterans of America organization. The office also provides campus benefits such as free parking, securing in-state tuition rates, priority registration, no late fee payments, and a separate military orientation.

Military, veteran, and/or dependent (spouse or child) students may be eligible to receive aid for approved postsecondary programs and certificates. Awards include GI Bill benefits, Department of Defense (DoD) Tuition Assistance (TA), New York State Higher Education Services Corporation (NYS HESC) scholarships, and multiple local college scholarships. Students should contact the Veterans and Military Services Office for assistance in determining eligibility for these programs.

## Weigel Wellness Center

Weigel Health Center  
[weigel.buffalostate.edu](https://weigel.buffalostate.edu) (<https://weigel.buffalostate.edu>)  
[Weigel@buffalostate.edu](mailto:Weigel@buffalostate.edu)

(716) 878-6711

The Weigel Health Center provides health and wellness services for all registered students. In addition to diagnosing and treating illness and injury, the professional staff stresses health education and preventive medicine. Students are seen on an appointment basis or a walk-in basis if a clinician is

available. There is no charge for most services. Laboratory services are available at Weigel Health Center. Some services may be sent to an outside lab and may result in insurance co-pays.

### Health Promotions

The Health Promotions program provides the campus community with workshops, training, events, and health promotion campaigns. Topics include bystander intervention, wellness, stress, sexual health, tobacco prevention, and alcohol and other drug abuse prevention. Internship and volunteer opportunities are available to students, and educational resources are available for student research or classroom projects.

### Immunization Compliance

All students must be in compliance with New York State law regarding immunizations to be able to register for classes. All students born on or after January 1, 1957 are required to submit proof of current requirements for immunization against measles, mumps, and rubella. The health center provides measles, mumps, and rubella immunizations at no charge for students who need vaccinations. New York State Public Law and Buffalo State College also require all students enrolled to complete and return the Meningitis Information Response Form. The meningitis form and the New Student Health Form are available online (<https://weigel.buffalostate.edu/forms/>) and are to be returned to the health center.

### Forms and Procedures for New Students

#### Student Health Insurance

[weigel.buffalostate.edu/insurance](https://weigel.buffalostate.edu/insurance) (<https://weigel.buffalostate.edu/insurance/>)

All full-time students (12 credit hours or more) are required to have health insurance (either their own or under a parent). Students with their own health coverage must submit proof of insurance through the wellness center student portal system by stated deadlines.

Student Wellness Center appointments are covered by the mandatory student health fee. Health insurance is needed for emergency room or urgent care visits, prescriptions, X-rays, physical therapy vision, and dental services. Not all insurances are covered outside of the student's permanent residential area, and it is the student's responsibility to contact their insurance carrier to determine coverage in the Buffalo area.

Students without health insurance can find resources and health insurance options listed on the Weigel Wellness Center website.

### Counseling Center

Weigel Wellness Center, Second Floor  
(716) 878-4436

[counselingcenter.buffalostate.edu](https://counselingcenter.buffalostate.edu) (<https://counselingcenter.buffalostate.edu>)

The Counseling Center provides professional psychological services to students experiencing developmental or situational difficulties that may interfere with their ability to take advantage of the educational opportunities at Buffalo State. The staff includes licensed psychologists, licensed clinical social workers, a case manager, and a part-time psychiatrist.

Information shared in counseling is confidential and is protected to the full extent of the law.

### Nutrition Education Counseling Center

Caudell 214  
(716) 878-6711

[necc.buffalostate.edu](https://necc.buffalostate.edu) (<https://necc.buffalostate.edu>)

The Nutrition Education Counseling Center provides free nutrition education and counseling to Buffalo State students.

## Whitworth Ferguson Planetarium

Science and Mathematics Complex  
Earth Sciences and Science Education Department  
(716) 878-4911

[earthscience.buffalostate.edu](https://earthscience.buffalostate.edu) (<https://earthsciences.buffalostate.edu/whitworth-ferguson-planetarium/>)

The new, state-of-the-art planetarium is a unique campus resource continuing the tradition of bringing astronomy education to the Buffalo State and Western New York communities since 1964. The planetarium seats up to 48 visitors under its 35-foot diameter dome and includes several types of projectors. The planetarium uses a Spitz SciDome 4K digital projection system, a Zeiss ZKP4 opto-mechanical star projector, an AVI SkyLase laser system, a ChromaCove LED lighting system, and a 5.1 stereo sound system to offer audiences exciting experiences in astronomy, earth science, and other topics.

Students studying astronomy, geology, and other courses use the planetarium as an immersive visualization laboratory in which to view course topics in ways not possible elsewhere. The planetarium also offers programs for school groups, scout groups, and the general public where audiences view the night sky and are transported across our solar system and out into the universe.

## Admissions

Admissions Office  
Moot Hall 110  
(716) 878-4017

[admissions.buffalostate.edu](https://admissions.buffalostate.edu) (<https://admissions.buffalostate.edu>)  
[admissions@buffalostate.edu](mailto:admissions@buffalostate.edu)

**Admission to Buffalo State College is based on the academic and personal qualifications of the applicant and is granted without regard to race, sex, ethnicity, national origin, sexual orientation, religion, age, disability, or marital or veteran status of individuals.** The Admissions Office website provides detailed information regarding application procedures. Prospective students and families may direct their questions and requests for assistance to the Admissions Office.

# Freshman Admission

Admissions Office  
Moot Hall 110  
(716) 878-4017

[admissions.buffalostate.edu](https://admissions.buffalostate.edu) (<https://admissions.buffalostate.edu>)

Admission is based on academic performance in high school and on space availability. Successful applicants will be those who submit a completed application (i.e., application form, essay, and high school transcript) with a demonstrated competitive high school curriculum. Special attention is given to grades in math, English, science, history, and foreign language. Students who apply without demonstrated success in a competitive curriculum may be reviewed using a "holistic review" that includes a variety of factors (e.g., letters of recommendation, strength of high school program completed, extracurricular participation). Enrolling freshmen must hold a high school diploma, TASC/GED, or New York State-recognized equivalent.

Please note: The State University of New York has suspended any required submission of SAT/ACT examination scores in determining undergraduate admissions eligibility for all SUNY four-year degree granting colleges. This is a temporary change of admission eligibility requirements applying to the spring 2022, fall 2022, and spring 2023 admission cycles only.

Refer to DOPS Policy I:01:06 (<http://bscintra.buffalostate.edu/dops/policysect1/010106.pdf>)

## Early Decision

Admissions Office  
Moot Hall 110  
(716) 878-4017

[admissions.buffalostate.edu](https://admissions.buffalostate.edu) (<https://admissions.buffalostate.edu>)

Buffalo State does not participate in Early Decision. Freshman admission decisions are made on a rolling basis beginning in November for fall applicants. Processing continues until new-student enrollment is at capacity. Applicants are encouraged to submit their applications as early as possible. Refer to the Buffalo State Admissions Office website for additional information about the application process.

## Early Admission

Admissions Office  
Moot Hall 110  
(716) 878-4017

[admissions.buffalostate.edu](https://admissions.buffalostate.edu) (<https://admissions.buffalostate.edu>)

Well-qualified high school juniors may apply to Buffalo State for full- or part-time study during their senior year in high school under the early admission option.

Buffalo State offers several options:

- enrollment on a part-time basis while attending high school,
- enrollment as a full-time freshman during the last semester of the senior year of high school, or
- enrollment as a freshman for the entire academic year instead of completing the senior year of high school.

The college arranges with the high school for remaining high school diploma requirements to be fulfilled by taking appropriate freshman courses at Buffalo State. Thus high school diploma requirements are met while college credit is earned. Early-admission students are not eligible for federal financial aid.

Refer to DOPS Policy I:01:01 (<http://bscintra.buffalostate.edu/dops/policysect1/010101.pdf>)

## Admission to All Education Preparation Programs

Freshman entry into a Buffalo State educator preparation program requires a minimum high school average of 85 percent, which is considered equivalent to a collegiate GPA of 3.0. Transfer students applying to educator preparation programs must demonstrate a minimum 3.0 GPA either in the last semester of full-time study or as a cumulative average from multiple colleges, whichever best represents ability. **Additional documents may be required for specific programs. Consult the program "Admissions" information or contact the department where the program resides.** Prospective candidates who do not yet demonstrate a 3.0 GPA and/or high school average of 85 percent or higher should consult academic advisers in the specific educator preparation programs of choice for suggested pathways to achieve successful candidacy.

Please note: The State University of New York has suspended any required submission of SAT/ACT examination scores in determining undergraduate admissions eligibility for all SUNY four-year degree granting colleges. This is a temporary change of admission eligibility requirements applying to the spring 2022, fall 2022, and spring 2023 admission cycles only.

## Educational Opportunity Program

South Wing 710  
(716) 878-4225

[eop.buffalostate.edu](https://eop.buffalostate.edu) (<https://eop.buffalostate.edu>)

The Arthur O. Eve Educational Opportunity Program (EOP) was established in 1967 to fulfill New York State's commitment to access to higher education. The program is for students of all racial and ethnic backgrounds who have the talent and ability to succeed in college but have been placed at a disadvantage for access by financial and academic circumstances.

# International Students

International applicants should possess the equivalent of 12 years of elementary and secondary education and must provide evidence of proficiency in the English language and the ability to meet the financial costs of attending college. Accepted students receive an I-20 form or a DS-2019 form enabling them to obtain, respectively, an F-1 (student) visa or a J-1 visa from the U.S. Embassy or Consulate in their home country.

All international students must enroll in a group health insurance plan, United Health Care Policy, offered by Buffalo State. The premium is subject to change each year. The International Student and Scholar Services Office (ISSS) website (<https://issss.buffalostate.edu/united-health-care-insurance/>) provides information about the required policy. Students will be charged the insurance premium on their semester bill. Payment must be paid to Student Accounts Office in Moot Hall. Failure to pay health insurance by week four of the semester will automatically cancel their registration with SEVIS.

Approximately \$34,988 USD a year will be necessary to cover all college expenses. Financial bank statements are required to show financial support prior to issuing the I-20 or DS 2019. International students who reside on campus may live in any residence hall. There is a fee to remain on campus during the winter break. The ISSS Office website (<https://issss.buffalostate.edu>) provides additional information.

Buffalo State is authorized under federal law to enroll nonimmigrant alien students.

## Transfer Students

Admissions Office  
Moot Hall 110  
(716) 878-4017

[admissions.buffalostate.edu/transfer](https://admissions.buffalostate.edu/transfer) (<https://admissions.buffalostate.edu/transfer/>)

Admission is based on academic performance in college and on space availability. A minimum cumulative GPA of 2.0 out of 4.0 is necessary for consideration, although some programs are very competitive and will require a higher minimum cumulative GPA for admission. Transfer students with more than 45 credit hours are encouraged to apply for and be admitted to their intended major program of study. Those with less than 60 credit hours may be undeclared. No student who is on academic probation at another institution or who has been academically dismissed in the past year will be accepted.

Previously earned credit will be evaluated for all transfer students upon admission to Buffalo State, and accepted students will be apprised regarding transferable credit. A maximum of 90 credit hours may be transferred from other regionally accredited baccalaureate degree-granting institutions, and with no more than 66 credit hours from associate degree programs. Most credit hours earned at other institutions will be accepted, although the college cannot guarantee how credit hours earned will relate to bachelor's

degree requirements. The most common cases in which transfer credit hours are not accepted are:

1. Developmental courses in mathematics, English, and learning skills.
2. Courses in programs not offered at Buffalo State (e.g., nursing, occupational therapy, etc.).

Only credit is transferable. Grades, quality points, and cumulative averages do not transfer.

The evaluation of transfer credit hours is recorded in Degree Works, Buffalo State's online degree audit system (<https://registrar.buffalostate.edu/degree-works/>). The system records the major and general college requirements that have already been fulfilled, and those that remain.

Departments reserve the right to refuse to accept transfer credit hours in fulfillment of their own major requirements. Whether or not a course fulfills a major requirement may be open to discussion with the department chair or academic adviser, and it is useful to have a copy of the catalog from the previous institution available.

Refer to DOPS Policy I:01:05 (<http://bscintra.buffalostate.edu/dops/policysect1/010105.pdf>)

## Admission of Persons with Prior Felony Convictions Policy

No SUNY campus may include questions regarding criminal history on admissions applications. However, admitted students who are seeking campus housing, clinical placements, field experiences, internships, or study abroad programs will be asked if they have been convicted of a felony as part of the application process for those programs or services. Students who have previously been convicted of a felony should review the college policy and process provided on the Dean of Students (<https://deanofstudents.buffalostate.edu/admission-persons-prior-felony-convictions/>) website.

## Special Credit

In addition to credit awarded for traditional college work, up to 45 credit hours may be accepted from the following combined sources.

Source	Maximum Credit Hours
Published examinations (No more than 18 credit hours may be in general examinations)	30
Course challenge	30
Military Service Credit	15
Non-collegiate institutions	15
Proprietary institutions	15

Further details may be found in the section on Academic Policies (p. 36).

### Military Credit

Credit for military experience and training provided by the Armed Forces will be granted on a case-by-case basis. In



addition to credit awarded for traditional college work, every effort is made to award credit for learning acquired in military service that satisfies degree completion, consistent with recommendations of the American Council on Education (ACE) and/or those awarded by the Community College of the Air Force. Official documents (AARTS, SMART, Community College of the Air Force or DANTES transcripts should be submitted directly to the Admissions Office. Maximum of 15 credits can be awarded for military credit.

Refer to DOPS Policy I:04:01 (<http://bscintra.buffalostate.edu/dops/policysect1/010401.pdf>).

## State University of New York Transfer Guarantee

Admissions Office  
Moot Hall 110  
(716) 878-4017

[admissions.buffalostate.edu/transfer](https://admissions.buffalostate.edu/transfer) (<https://admissions.buffalostate.edu/transfer/>)

An opportunity to continue full-time study at a four-year State University of New York (SUNY) college is guaranteed to all New York State residents who transfer directly from a SUNY or City University of New York (CUNY) two-year college with an A.A. or A.S. degree. To be eligible, students must:

- File an application with the SUNY Application Services Center by March 1 for fall admission or October 1 for spring admission.
- Provide four-year campuses with an official two-year college transcript, showing three semesters of completed studies, by March 15 for fall admission or by October 15 for spring admission.
- Complete any required supplemental application materials by April 15 for fall admission or by November 15 for spring admission.

The transfer guarantee becomes effective if applicants are denied admission at all SUNY four-year college choices. All applications at baccalaureate campuses must be complete.

## Dual Admission Programs

Admissions Office  
Moot Hall 110  
(716) 878-4017

[admissions.buffalostate.edu/transfer](https://admissions.buffalostate.edu/transfer) (<https://admissions.buffalostate.edu/transfer/>)

- SUNY Erie Community College
- Finger Lakes Community College
- Genesee Community College
- Jamestown Community College
- Monroe Community College
- Niagara County Community College
- Onondaga Community College

First-time freshmen who expect to receive an A.A. or A.S. degree from SUNY Erie Community College, Finger Lakes Community College, Genesee Community College,

Jamestown Community College, Monroe Community College, Niagara County Community College, or Onondaga Community College and are planning parallel programs at Buffalo State may file a single application for simultaneous admission to one of the two-year colleges and to Buffalo State. These students follow a definitive curriculum at the two-year college and receive counseling and advisement that will facilitate enrollment into a parallel program at Buffalo State upon completion of the associate's degree. They will matriculate at Buffalo State as juniors and must meet current admission requirements for their major at the time of matriculation.

Dual Admission Program students can expect to earn a baccalaureate degree for most programs in four additional semesters, provided they successfully complete at least 15 credit hours per semester. Students planning to pursue programs requiring certification (e.g., education) may require more than four semesters of full-time study to finish. Further details are available from the Undergraduate Admissions Office at Buffalo State or the transfer counseling office at the participating two-year college

Refer to DOPS Policy I:01:02 (<http://bscintra.buffalostate.edu/dops/policysect1/010102.pdf>)

## Admission Procedures

Admissions Office  
Moot Hall 110  
(716) 878-4017

[admissions.buffalostate.edu](https://admissions.buffalostate.edu) (<https://admissions.buffalostate.edu>)

Buffalo State participates in the SUNY application (freshman and transfer) and the national Common Application (freshman only). These forms can be completed and submitted online at [suny.edu/attend](https://www.suny.edu/attend) (<https://www.suny.edu/attend>), [admissions.buffalostate.edu](https://admissions.buffalostate.edu) (<https://admissions.buffalostate.edu>), or [commonapp.org](https://www.commonapp.org) (<https://www.commonapp.org>). Admission decisions are made on a rolling basis beginning in November for spring and fall applicants. Processing continues until new-student enrollment goals have been met. Applicants are encouraged to submit their application and supporting materials as early as possible to receive timely consideration.

All matriculating students born on or after January 1, 1957, must submit proof of immunity to measles, mumps, and rubella. Students who cannot show proper proof of immunity will not be permitted to register. A completed health report and physician's certificate must be on file at the college's Weigel Wellness Center.

All accepted students must submit a \$125 advance tuition deposit, with the exception of Educational Opportunity Program (EOP) participants. This deposit is applied to the fall or spring semester tuition bill (whichever is appropriate).

Refunds of the tuition deposit are made only under the following circumstances:

1. A refund request must be made within 30 days after the date of acceptance, or by May 1 for summer/fall terms or

November 1 for spring term, whichever is later, but prior to the first day of registration.

2. If the college withdraws a conditional acceptance.
3. If the student withdraws to enter military service.
4. If the college comptroller deems that conditions beyond the student's control warrant a refund and appropriate documentation is provided.

Requests for tuition deposit refunds must be received in writing and include the appropriate documentation.

Refer to DOPS Policy I:01:00 (<http://bscintra.buffalostate.edu/dops/policysect1/010100.pdf>)

## Non-degree Status

Non-degree status enables individuals to take college courses for credit without working toward a degree. Students may enroll in up to 11 credit hours of coursework each semester on a space-available basis. Credits earned may be applicable to a bachelor's degree at Buffalo State if the student applies and is accepted as a formally matriculated student. The only entrance requirement is a high school diploma or its equivalent. Students who have been academically dismissed from any institution must wait one full year from the time of dismissal before enrolling under non-degree status. The non-degree status application is available online (<https://connect.buffalostate.edu/register/ugnon/>). Non-degree students are not eligible for financial aid.

Adult learners without college experience who do not qualify for matriculated study may also enroll as part-time, non-degree students. After completing 15 credit hours of college-level coursework with a minimum 2.0 GPA, they are eligible for degree study pending a completed application. Credit hours earned will be applicable toward a degree.

Students are responsible for completing the degree requirements in effect at the time they reach matriculated status.

## Readmission

Students who attended Buffalo State previously in a matriculated status and wish to re-enroll must apply for a specific program and have their applications reviewed by the appropriate department. Readmitted students are required to follow the major/degree requirements in effect for the semester in which they are readmitted, as outlined in the undergraduate catalog for that semester/year. If other courses have been taken at other institutions since leaving the college, official transcripts must be submitted.

Undergraduate and graduate students who discontinue attendance without taking a leave of absence can register for classes, without applying for readmission. Baccalaureate graduates and undergraduate students with less than a 2.0 cumulative GPA retain registration eligibility for only one fall or spring semester beyond the semester in which they were last registered.

Effective summer 2014, all new transfer and readmitted students at Buffalo State are required to fulfill Intellectual Foundations 2014 (IF 14) requirements regardless of their initial matriculation date into a regionally accredited four-

year institution or two-year college. Students who have been academically dismissed must wait one full year from the time of dismissal before being considered for readmission. If readmitted, all coursework taken previously will be considered in computing the cumulative average.

Readmission forms are available online (<https://connect.buffalostate.edu/register/ugreadmission/>).

## Summer Session

[buffalostate.edu/summer](https://buffalostate.edu/summer) (<https://suny.buffalostate.edu/summer/>)

Departments frequently offer creative or unique courses in the summer, including online courses. Summer Session is an opportunity for matriculated Buffalo State students, non-matriculated students, and students at other colleges home on summer break to catch up on coursework to graduate on time, catch up on electives, fulfill final credits, complete professional certification requirements, or take advantage of affordable in-state tuition. Students from other colleges are required to complete a non-degree status application (<https://connect.buffalostate.edu/register/ugnon/>) for admission in advance of registration.

A number of scheduling options are available beginning in late May and run through mid-August. Summer Session courses and course registration dates are posted online (<https://suny.buffalostate.edu/summer/>) in January, including credit-hour limits and other important registration information. Students seeking financial aid for Summer Session should consult the Financial Aid Office Summer Aid web page (<https://financialaid.buffalostate.edu/summer-aid/>) prior to registering.

## January Term (J-Term)

The January Term (J-Term) is a three-week mini-term that occurs during the first three weeks of January. It is an opportunity to earn 1#6 credits.

- Matriculated students must secure approval from an appropriate academic adviser to register for more than 6 credit hours.
- Probationary students seeking to override the 6-credit-hour limit must receive approval through their dean's office.
- Cross registration is not permitted during J-Term.

### Federal Financial Aid Processing

- J-Term is not considered a stand-alone semester. It is part of the spring semester.
- Students identified as ineligible for federal financial aid after the fall semester cannot regain aid eligibility for the spring semester by attending J-Term.
- A separate aid application is required to be considered for J-Term financial aid and is available online each November.

### Tuition and Fees

Students are charged per credit hour for J-Term. J-term charges are not included with spring charges and a separate bill will be generated for each term.

## Evening Study

All students—whether part time or full time, day or evening—are admitted through the Buffalo State Admissions Office. There is no separate evening division. As a result, the provision of basic college services is direct and efficient. Students enjoy the flexibility of being able to switch between day and evening schedules simply on the basis of the courses for which they register. The general programs, policies, procedures, and course descriptions throughout this catalog apply to both day and evening students.

Evening study programs are noted on the Undergraduate Major and Minor Programs (p. 65) page. The courses for each of these programs are sequenced over several semesters so that evening students can fit them into their schedules. Courses are offered on weekends and online. These major and minor programs also can be completed through day-time study.

## Student Retention

The college routinely collects and maintains data regarding student persistence and graduation rates. Buffalo State graduation rates compare most favorably with national benchmarks, averages, and graduation rates for other similar public metropolitan institutions. Further information is available upon request.

## Finances

### Undergraduate Finances and Billing

Student Accounts Office  
Moot Hall 260  
(716) 878-4121

[studentaccounts.buffalostate.edu](https://studentaccounts.buffalostate.edu) (<https://studentaccounts.buffalostate.edu>)

Electronic bills (e-bills) are the exclusive billing method for all Buffalo State student account balances. Paper bills are not mailed to students. Students should print their QuikPAY statement if needed. All e-billing notifications are emailed to the student's Buffalo State email address.

Students are required to pay tuition and fees upon receipt of invoice with cash, credit card, or through a deferred payment plan. Deductions will be made under various financial aid programs upon approval of the Financial Aid Office.

Room and board charges must be paid prior to arrival on campus and are typically included in the e-bill covering tuition and fees. Rates (p. 26) listed in the e-catalog are subject to review and may change without prior notice.

Further information concerning payment, including important billing dates and how to pay by students or by authorized payers (e.g., parents) is provided on the Student Accounts billing (<https://studentaccounts.buffalostate.edu/billing/>) page.

## Explanation of Terms

### Full Time

A student who is registered for 12 or more credit hours a semester is considered a full-time student.

### Part Time

A student who is registered for 1 to 11 credit hours a semester is considered a part-time student.

### Semester

An academic year at Buffalo State consists of a fall semester and a spring semester. Yearly expenses are twice the semester rate.

### Resident (for tuition purposes)

As established by the State University of New York Board of Trustees, an individual university registrant is considered a New York State resident and is charged in-state tuition rates when that individual is determined to have a permanent and principal home in New York State for 12 months prior to registration. Those who do not meet this requirement are presumed to be out-of-state residents and are charged out-of-state tuition rates unless satisfactory proof is presented to show that domicile in New York State has, in fact, been established.

## Tuition

### Undergraduate Tuition

Undergraduate Tuition and Fees (<https://studentaccounts.buffalostate.edu/undergraduate-tuition-and-fees/>)

Tuition for full-time Buffalo State undergraduate students for the 2021#2022 academic year is \$3,535 per semester for New York State residents and \$8,490 per semester for out-of-state students. Tuition for part-time undergraduate students is \$295 per credit hour for New York State residents and \$708 per credit hour for out-of-state residents.

Undergraduate tuition and fees are listed on the Student Accounts website (<https://studentaccounts.buffalostate.edu/undergraduate-tuition-and-fees/>). Billing information and in-state residency requirements are also provided.

The Financial Aid Office provides estimated cost of attendance information and a net cost calculator in its website (<https://financialaid.buffalostate.edu/undergraduate/>).

Please note: Rates listed are subject to review and may change without prior notice.

Refer to New York State Debt Collection Mandate (p. 27).

## Undergraduate Fees

Fees listed are pending approval from the State University of New York Board of Trustees and subject to change.

### Student Accounts Office

Moot Hall 260  
(716) 878-4121

Undergraduate Tuition and Fees (<https://studentaccounts.buffalostate.edu/undergraduate-tuition-and-fees/>)

### **Activity Fee\***

A mandatory activity fee of \$100 per semester for full-time students and \$8.50 per credit hour for part-time students is collected to support the activities of more than 70 student groups on campus.

### **Athletics Fee\***

A mandatory athletic fee of \$171.50 per semester for full-time students and \$14.25 per credit hour for part-time students is collected to support intercollegiate athletics.

### **College Fee\***

A mandatory college fee of \$25.00 per semester for full-time students and \$1.70 per credit hour for part-time students is collected by all units of the State University of New York system to finance the operating budget.

### **Health Fee\***

All full-time students are required to pay a \$174.50 per semester health fee. Part-time students pay \$14.65 per credit hour per semester. This fee provides basic medical assistance to students on campus through the Weigel Wellness Center. A mandatory health fee is collected by all units of the State University of New York system.

### **Technology Fee\***

A mandatory technology fee of \$182.00 per semester for full-time students and \$15.15 per credit hour for part-time students is collected to provide enhancements to campus technology.

### **Transportation Fee\***

A mandatory fee of \$55.00 per semester for full-time students and \$4.55 per credit hour for part-time students is collected for the Buffalo State-Niagara Frontier Transportation Authority (NFTA) College Riders Accessing Metro (CRAM ) Pass Program. All undergraduate students receive an NFTA Metro Pass through the CRAM Pass Program, which provides unlimited use of both the extensive NFTA bus services on and around campus and all NFTA bus and rail services throughout the region.

\*These fees are refunded only when registration is canceled during drop/add period.

### **Undergraduate Late Fees, Service Fees**

#### **Parking Fee**

Students who are eligible and choose to park on campus pay \$70 per academic year and \$10 for summer-only permits. The parking fee is refundable within the first two weeks of classes upon surrender of the parking permit.

#### **SUNY Mandated Fees**

The following fees are administered to comply with mandatory State University of New York policy.

#### **Academic Transcript Fee**

There is a \$9 fee for each transcript requested.

#### **Billing Fee**

A billing fee of \$30 is assessed to each delinquency notice sent by the college. Late filing of financial aid does not waive this fee.

### **Late Drop/Add Fee**

A \$20 late drop/add fee is charged for each transaction after the first week of classes. Independent study, special projects, or contracts added after the second week of classes are also charged this fee.

### **Late Payment Fee**

A \$30 fee is charged if the final semester bill is not paid by the due date.

### **Late Registration Fee**

Registrations on "late registration day" (the first day of classes) or later are charged a mandatory \$40 late registration fee that cannot be waived or deferred. Exceptions are registrations for graduate workshops, independent study, special projects, contracts, and any course requiring performance auditions. Registrations for independent study, special projects, and contracts turned in after the second week of classes that generate the only registration for a student will also be assessed the \$40 late fee.

### **Returned Check Fee**

A \$20 fee is charged for each check returned by the bank or any declined credit card transaction. The fee is nondeferrable and cannot be waived. An additional billing fee is charged on any transaction covering a course and/or room registration. If payment is not received within 10 days from the date of notification, the account is referred to the New York State Attorney General's Office for collection and handling.

### **New York State Debt Collection Mandate**

Refer to New York State Debt Collection Mandate (p. 27).

## **New York State Debt Collection Mandate**

The State University of New York reserves the right to withhold academic records from any student who has not satisfied or made provision to satisfy all obligations incurred in the State University of New York system. Unpaid accounts are, in due course, turned over to an external collection agency. Collection costs are added to the amount of indebtedness.

## **Course Fees**

Some courses may have additional course fees. Student Accounts provides a complete listing on the Student Accounts website (<https://studentaccounts.buffalostate.edu/course-fees/>).

## **Waiver for Off-Site Distance-Education Students**

### **Waiver of Broad-Based Fees for Exclusively Online Students**

In order to be eligible for a waiver of broad-based fees, a student must be enrolled exclusively in online courses. Those enrolled in remote instruction classes are not eligible for a fee waiver. Fees subject to waiver are the athletics and transportation fees. Fee waivers are not automatic. When a student is enrolled in both on-campus and off-campus or distance learning courses, the fees apply to all courses for

which the student is registered. Broad-based fee waivers are granted on a per-semester basis for Buffalo State students who meet one of the following three conditions:

1. Students who are enrolled in study-abroad programs.
2. Students who reside outside of Erie and Niagara counties and are enrolled exclusively in online courses.
3. Students who reside outside of Erie and Niagara counties and are participating exclusively in off-site internships, master's project, student teaching curricula, or similar that never meet on campus.

Summer session is deemed one semester for consideration of broad-based fee waivers. Fee waivers are not automatic. Students seeking fee waivers must apply for them. Information is provided on the Finance and Management (<https://financeandmanagement.buffalostate.edu/fee-waivers/>) website.

## Parking Fee

Parking Services Office  
Moot Hall 260  
(716) 878-3041

[buffalostate.edu/parking](https://suny.buffalostate.edu/parking/) (<https://suny.buffalostate.edu/parking/>)

Students who are eligible and choose to park on campus pay \$70 per academic year and \$10 for summer-only permits. Eligibility criteria and online permit purchasing are available on the Parking Services (<https://suny.buffalostate.edu/parking/>) website. The parking fee is refundable within the first two weeks of class upon surrender of the parking permit.

## Room and Board

Residence hall room rates for the 2021#2022 academic year are \$4,253 per semester for a standard double-occupancy room. Additional options and rates are provided on the Residence Life (<https://residencelife.buffalostate.edu/housing-costs/>) website. Meal plan rates vary and are provided at [dineoncampus.com/bsc/](https://dineoncampus.com/bsc/) (<https://dineoncampus.com/bsc/>). Residence hall room rates and meal plan rates are subject to change.

## Miscellaneous Expenses

Miscellaneous expenses will vary depending on the student's academic program, personal spending habits, and commute distance.

## International Student Health Insurance

International Student and Scholar Services  
South Wing 410  
(716) 878-5331

[iss.buffalostate.edu](https://iss.buffalostate.edu/) (<https://iss.buffalostate.edu/>)

## United Health Care Insurance

Health insurance is mandatory for all international students at Buffalo State, and all enrolled international students must purchase the health insurance plan the college offers. Requirements and enrollment information are provided on the International Student and Scholar Services website (<https://iss.buffalostate.edu/united-health-care-insurance/>).

## Summer Session Tuition and Fees

Tuition and fees for all courses taken during Summer Session are charged at the credit-hour rate. Student Accounts lists current Summer Session costs (<https://studentaccounts.buffalostate.edu/undergraduate-tuition-and-fees-summer/>).

## Automatic Payment Plan

Student Accounts Office  
Moot Hall 260  
(716) 878-4121

[studentaccounts.buffalostate.edu](https://studentaccounts.buffalostate.edu/) (<https://studentaccounts.buffalostate.edu/>)

Buffalo State offers a payment plan to assist students and their families in meeting the costs of tuition, fees, room, and board. Tuition payment plans break down your tuition balance into affordable monthly payments without interest. Information and online enrollment are available on the Student Accounts (<https://studentaccounts.buffalostate.edu/payment-plan/>) website.

## Refund Policies

Student Accounts  
Moot Hall 260  
(716) 878-4121

[studentaccounts.buffalostate.edu/refunds-and-financial-liability](https://studentaccounts.buffalostate.edu/refunds-and-financial-liability/) (<https://studentaccounts.buffalostate.edu/refunds-and-financial-liability/>)

All financial refunds are sent to students in the following order:

1. Refunds are transferred electronically to the student's bank account if a direct deposit application is on file in the Student Accounts Office.
2. Refunds are mailed to the permanent address of record on file in the Registrar's Office. Students are responsible for informing the Registrar's Office of any address changes.

## Undergraduate Tuition Refunds

Tuition refunds are processed only when the student officially withdraws through the Registrar's Office. Students given permission to cancel their registrations are responsible for

payment of tuition and fees according to the following schedule:

Date of Course Withdrawal	Tuition Liability
<b>Fall and Spring Semesters</b>	
First week of classes	0%
Second week	30%
Third week	50%
Fourth week	70%
After fourth week	100%
<b>Summer Sessions</b>	
First two days of Sessions ES or LS	0%
Third day through end of first week of Sessions ES or LS	50%
Second week of Sessions ES or LS	100%
Session VS varies on actual start date of class.	

## Room Rental Refunds

During the fall and spring semesters, room rental refunds can be made only when students withdraw due to circumstances beyond their control. Questions covering refunds are addressed in the residence hall license.

Refer to Campus and Residence Life Policies (<https://residencelife.buffalostate.edu/campus-residence-life-policies/>).

## Board Charge Refunds

Campus Dining Services Office  
Campbell Student Union 223  
(716) 878-5152

[dineoncampus.com/bsc](https://www.dineoncampus.com/bsc/) (<https://www.dineoncampus.com/bsc/>)

Board refunds (meal plans) are calculated according to college and federal regulations and guidelines, less a \$20 service charge for processing. No refunds are given after the drop/add session at the start of each semester. Contact the Buffalo State Campus Dining Services Office (<https://www.dineoncampus.com/bsc/>) for additional information.

## Financial Aid

The goal of the Financial Aid Office is to assist students with securing sufficient funding to cover their educational expenses. Annually, 85 percent of all undergraduate students receive some form of financial aid (federal, state, institutional, and/or private) while attending SUNY Buffalo State College.

Staff members in the Financial Aid Office, Moot Hall 230, are available year-round to assist students and their families with the financial aid application process. The staff adheres to the industry's Code of Conduct (<http://financialaid.buffalostate.edu/conduct/>).

Contact the Financial Aid Office at (716) 878-4902 or [finaid@buffalostate.edu](mailto:finaid@buffalostate.edu). Additional financial aid information

is available on-line at [financialaid.buffalostate.edu/](http://financialaid.buffalostate.edu/) (<http://financialaid.buffalostate.edu/>).

## Application Procedures

There are multiple steps in the financial aid application process. Students must file the Free Application for Federal Student Aid (FAFSA) after Oct. 1st of each year to apply for aid for the upcoming year. Students are encouraged to apply by Buffalo State's priority filing deadline date.

The FAFSA can be found on-line at [fafsa.gov](http://www.fafsa.gov) ([http://www.fafsa.gov/](http://www.fafsa.gov)). To expedite this process, students (and parents, if dependent student) will need to have an FSA ID. Apply at [fsaid.ed.gov/npas/index.htm](https://fsaid.ed.gov/npas/index.htm) (<https://fsaid.ed.gov/npas/>). The FSA ID serves as the electronic passport to federal student aid online.

After submitting the FAFSA, students receive a Student Aid Report (SAR). The SAR summarizes the information provided on the FAFSA, and indicates the Expected Family Contribution (EFC). Review the SAR carefully for errors (the form highlights items that may need attention) and follow directions for making corrections. Students are encouraged to submit corrections promptly to avoid long delays in processing or application. Retain a copy of the SAR for record purposes.

### Financial Need

Based on financial information provided on the FAFSA, a thorough analysis of the students' and/or parents' financial strength, including income, assets, and number of family members in college, will be conducted by the federal processor, and the applicants' Expected Family Contribution (EFC) is computed. The EFC is the amount of money a family can reasonably be expected to contribute. Financial Aid is then awarded based on the resulting comparative measure of need.

Financial need is determined by subtracting the Expected Family Contribution (EFC) from the Cost of Attendance (an estimated budget that includes tuition, fees, room, board, books, supplies, transportation, and a personal allowance). Students can only be funded up to the amount of the Cost of Attendance (<https://financialaid.buffalostate.edu/costs/>).

Approximately 30% of Buffalo State students will be required to complete the review of a student's financial aid eligibility. This may include the submission of the IRS Tax Return Transcript and other supporting documents. This verification process is required to ensure the accuracy of information provided on the FAFSA. If selected, students (and parents, if dependent) will be required to provide the office with the requested documentation before aid will be disbursed to the student's account.

It is very important for students to respond to all requests for additional documentation in a timely fashion.

## Eligibility for Federal Financial Aid

Eligibility for financial aid is based on many factors, including but not limited to citizenship status, matriculation status,

enrollment status, financial need, and satisfactory academic progress.

To be considered eligible for federal financial aid, students must:

- be in good academic standing;
- be a U.S. citizen or eligible non-citizen;
- be matriculated;
- be registered for at least 6 credit hours (except for Pell Grant and TEACH Grant);
- not be in default on a previous educational loan;
- have a high school diploma or equivalent: General Education Development (GED) certificate or Home Schooled.

### Matriculation

To be eligible for most forms of financial aid, students must be U.S. citizen or eligible non-citizen and matriculated into degree or certificate programs. Only courses required for a student's current program of study are eligible for federal financial aid. Students taking continuing education courses, some visiting students, and special status students who have been allowed to take courses but have not been formally accepted by the college are considered non-matriculated and are ineligible for federal financial aid.

Students with bachelor's degrees taking courses required by the state for teacher certification may borrow a Federal Direct Loan at the fifth-year undergraduate limits, even though they are not actually pursuing a degree. Undeclared (pre-major) graduate students can take out loans at the fifth-year undergraduate limits for one year if they are enrolled in preparatory coursework. Preparatory coursework does not include courses taken solely to raise the student's GPA to meet graduate admission standards and the courses must be part of an eligible program. The courses must be part of an eligible program.

### Enrollment Status

In most cases, students must be enrolled at least half time (6 credit hours) in courses required for their program to be eligible for federal financial aid. Students may be eligible for a Federal Pell Grant and TEACH Grant when enrolled less than half time.

### Required Courses and Student Outcome Tracking

Students must enroll in required courses to qualify for federal financial aid, including loans. Buffalo State systemically reviews enrollment for required courses using Student Outcome Tracking (SOT). SOT compares enrollment to Degree Works audit to verify each course is required and fulfills specific degree requirements. If the SOT process identifies courses not required, students will be notified so they can take the appropriate actions (e.g., change registration, work with the advisor to update Degree Works, etc.). Federal financial aid is adjusted after the drop/add period elapses to reflect the number of required credits in which the student is enrolled, which could result in a reduction or cancellation of financial aid.

## Overawards

An over-award can occur if a student is awarded other forms of assistance (e.g., scholarships, tuition waivers, loans, etc.) that causes their financial need to exceed the cost of attendance. As a result of an over-award, students may have portions of their aid reduced or canceled, which may leave an outstanding balance due to the college.

Students should notify the Financial Aid Office in writing immediately if they receive additional awards or funds that were not included in their award package.

## Withdrawal from Classes

If a student who has received financial aid funds withdraws, takes a leave of absence, or drops out during a semester, a portion of the federal financial aid may need to be repaid to the granting institution. In some situations, students may have incurred full liability for charges but only have "earned" a portion of the aid they were awarded. In such cases, the unearned portions of aid will be returned, but students will still owe the full balance to the college. Students who unofficially withdraw (i.e., stop attending classes without formally withdrawing from school) may also be subject to returning a portion of the aid they received. Students considering withdrawing from all courses should consult with the Financial Aid Office before taking any actions.

### Return of Title IV (R2T4) Funds

Federal regulations mandate a Return of Title IV Funds calculation when a student receiving Title IV financial aid (e.g. Pell, SEOG, and Direct Loans) completely withdraws. If a student never attends, ceases enrollment, or withdraws from all courses in the semester and they received federal financial aid, the college must determine if these funds are required to be returned to the appropriate financial aid programs within forty-five (45) days.

### R2T4 Calculation

The R2T4 calculation may result in a reduction of the student's federal loan(s) and grant(s) if he/she attended less than 60 percent of the semester. The R2T4 calculation is based on the following:

- The number of days the student attended
- The institutional charges assessed
- The total amount of federal Title IV aid awarded, accepted and/or disbursed

As a result, the school and the student may be required to return any "unearned" federal aid received.

### Unofficial Withdrawal

Federal Title IV financial aid is processed for a student under the assumption that the student will attend courses for the entire period for which the financial assistance is provided. A registered student who failed to earn a passing grade in at least one course is presumed to have "unofficially withdrawn" for federal Title IV financial aid eligibility purposes.

The Financial Aid Office will work with the student and his/her faculty members to ascertain official proof regarding the student's last date of attendance (known as the withdrawal

date) for the semester and perform the R2T4 calculation to determine the "unearned" federal financial aid that must be returned to the designated program(s). The student will be notified by U.S. Postal mail regarding the results of R2T4 calculation.

### Academic Withdrawal

While there is no academic penalty associated with the 'W' grade, there may be financial aid implications regardless of the reason (e.g. medical; etc.). Any student who received federal Title IV financial aid funding (e.g. Pell Grant, Direct Loans, etc.) will have their eligibility recalculated in order to determine:

- the amount of financial aid the student is eligible to retain
- the amount of "unearned financial aid" that must be returned

Additionally, the calculation will be based on the earliest date documented on the official Academic Withdrawal form.

### Withdrawal from Modular (Mini-Session/Term) Courses

A student who completes all the graduation requirements for a program will not be considered withdrawn if they fail to attend future summer module(s) for which they are registered.

A student who successfully completes a module (passes at least one course) that comprises 49% of the total days in the payment period will not be considered withdrawn. A student who successfully completes coursework (passes course(s) equal to or greater than the coursework required for half-time (6 credit hours) enrollment will not be considered withdrawn. Only courses that the student was enrolled in at the summer freeze file will be used in the R2T4 calculation. All others will be considered as withdrawn for Return of Title IV (R2T4) purposes.

An exception is made if the student provides written notification affirming his/her intent to attend a future course (prior to start of the course) within the payment period or the student provides affirmation of attendance by enrolling/registering in a future course within the same payment period after the original withdrawal date. Written notification MUST be received prior to the first day of the future course.

Notification of attendance in a future course must be made in writing by submitting the Affirmation of Future Attendance form. It is the responsibility of the student to provide complete, accurate and timely information to the Financial Aid Office, Moot Hall, 230.

### Unearned Aid

A determination regarding the percentage of the semester the student completed must be performed and this will reveal the percentage of the federal Title IV aid that the student has earned. The total amount of federal aid disbursed to the student, or that could have been disbursed to the student minus the amount of federal aid earned by the student equals the amount of federal loan(s) and grant(s) that is unearned and that must be returned: (688.22(e)).

Total Title IV Disbursable Aid  
- (minus) Title IV Aid Earned

-----  
= Title IV Loan(s) and Grant(s) to be Returned

If the college is required to return any unearned aid, we will reduce or cancel the federal award(s), debit the student's account and return the unearned portion of aid to the U.S. Department of Education. This adjustment may result in a balance due to Buffalo State. It is the student's responsibility to repay the "unearned" portion of aid that was charged back to the student account.

### Post-Withdrawal Disbursement

A post-withdrawal disbursement of federal Title IV aid occurs when the amount of federal aid earned by the student is greater than the amount of the federal aid disbursed for the semester. A student eligible for a post-withdrawal disbursement will receive written notification from the college. Students receive a notification via U.S Postal mail that they have the right to accept or decline, some, or all, of the post-withdrawal disbursement that is being offered. It is the responsibility of the student to provide written notification to the Financial Aid Office if accepting a post-withdrawal loan disbursement; the post-withdrawal disbursement of Title IV loan proceeds will be made as soon as possible but no later than 180 days after the date the student withdrew.

### R2T4 Distribution of Financial Aid Refund

Refunds returned to the U.S. Department of Education on behalf of the student are distributed among the financial aid programs in the following order:

1. Unsubsidized Federal Direct Stafford Loan
2. Subsidized Federal Direct Stafford Loan
3. Federal Direct Parent Loan for Undergraduate Students
4. Federal Pell Grant
5. Iraq and Afghanistan Service Grants
6. Federal Supplemental Educational Opportunity Grant
7. TEACH Grants

### Notification

Students will receive official written notification indicating the type and amount of aid returned to the U.S. Department of Education.

## Satisfactory Academic Progress (Federal)

Satisfactory Academic Progress (SAP) is the process used to determine if a student is making acceptable progress toward a degree or certificate. At the end of each payment period (semester), a review of a student's progress is conducted. A student's failure to meet any of the three Satisfactory Academic Progress standards (for all terms enrolled, not just those terms that aid was received) may result in loss of federal aid eligibility.

An electronic notification detailing the SAP status will be sent to the student's Buffalo State e-mail address; if unavailable, a hard copy notification will be mailed to the permanent address on file.

All three of the following Satisfactory Academic Progress standards must be met:

1. Cumulative Grade Point Average (GPA) - Qualitative Component



- a. A student must have a minimum cumulative GPA of 2.0 (Buffalo State's GPA only)
2. Minimum Pace rate for Attempted Credit Hours - Quantitative Component
  - a. A student must complete at least two-thirds (66.67%) of all cumulative attempted credit hours.
  - b. New freshmen are required to successfully complete at least half (50%) of the credits they attempt during their first two semesters. Starting with their third semester, they are then required to successfully complete two-thirds of their credits.
  - c. The following grade designations are considered to be attempted credit hours but are not considered to be successfully completed: I, N, X, W, U, E, EV, and F grades.
  - d. All courses removed through the academic clemency process will be counted as attempted credit hours. On a case-by-case basis, academic clemency may be subject to appeal.
  - e. Noncredit remedial courses are no longer counted in the Pace calculation. Transfer credit hours posted to the official transcript record will be counted as attempted credit hours.
  - f. Transfer credit hours posted to the official transcript record will be counted as attempted credit hours
3. Maximum Time Frame/Degree Completion within 150 percent of the average Length of the Program - Quantitative Component
  - a. Students must complete their first baccalaureate degree within 150 percent of the normal time required to complete a bachelor's degree. For example, credit hours cannot exceed 180 attempted credit hours for a program with a published length of 120 credit hours.
  - b. Federal financial aid eligibility will be terminated when a student has attempted 180 credit hours (for a degree published with a 120 credit hours requirement); there is no waiver of the maximum time frame standard for any reason.
  - c. Federal financial eligibility will be terminated when the Financial Aid Office determines it is not mathematically possible for a student to complete his/her degree program within the maximum time frame.
  - d. A student pursuing a double major or degree must earn his or her first bachelor's degree within the 150 percent maximum time frame standard.
  - e. A student that completed all coursework required for a major or degree is ineligible for a Pell grant even if an Application for Undergraduate Degree form is not on file.

Students must be accepted into a major before completing 60 credit hours to continue to be eligible for federal aid.

Readmission to the college after an absence does not automatically mean reinstatement of federal aid eligibility.

### Repeated Courses

Courses that are repeated to improve a grade are counted as attempted each time they are taken but are only counted as completed once.

### Financial Aid Warning

A student who fails to maintain cumulative GPA or meet Pace requirements is placed on Financial Aid Warning as long as it is mathematically possible to recover in one payment period. There is no action required by the student; federal aid eligibility continues for one payment period/semester.

### Appeal Process

If the student is still not making satisfactory academic progress after the Financial Aid Warning semester, he or she is ineligible for federal financial aid until the required standard(s) is achieved. Only transcript updates (e.g. grade change; retro-drop; etc.) made within one calendar year from the date the student became ineligible for federal aid will be considered during the appeal process.

A student has a right to appeal the loss of federal financial aid eligibility if mitigating circumstances (events totally beyond the student's control) existed. All SAP appeals should be submitted through the Academic Standards Office (<https://academicstandards.buffalostate.edu/federal-aid-waivers/>) website. To schedule an appointment, or for questions regarding the documentation that must be submitted, students should contact the Academic Standards Office via email at [acadstandards@buffalostate.edu](mailto:acadstandards@buffalostate.edu).

### Financial Aid Probation

A student who fails to maintain the cumulative GPA and/or meet the Pace rate standard is placed on Financial Aid Probation only if the student has successfully appealed. The student will continue to receive federal financial aid for one payment period/semester. The student must meet SAP at the end of the probationary period or comply with the requirements of an Academic Plan (contractual agreement that ensures the student is able to meet overall SAP requirements by a specified point in time).

If the student is still not making Satisfactory Academic Progress or fails to meet the Academic Plan requirements after the probationary period, he or she will become ineligible for federal financial aid until all three SAP standards are successfully met.

## Federal Financial Aid Sources

There are three basic federal financial aid categories that constitute a student's individual award package: grants and scholarships (do not need to be repaid), loans (must be repaid), and jobs (Federal Work-Study position).

### Eligibility for the Federal Pell Grant

The Federal Pell Grant Program provides need-based grants to low-income undergraduate students to promote access to postsecondary education. The student's Expected Family Contribution (EFC) determines eligibility for this grant. The maximum Pell Grant is set by the U.S. Department of Education each award year. The amount of the Pell Grant a student will receive depends on the student's EFC and several factors, including cost of attendance (tuition and fees, room and board, books, and supplies) and the amount of time the student attends college (whether a full academic year or less, and whether full time or part time). Students cannot receive Pell Grant funds from more than one college

at a time. Students may receive up to 12 full-time semesters of a Pell Grant (or part-time Equivalent) or until they have completed the requirements for a bachelor's degree; whichever happens first. The Federal Pell Grant Program allows an eligible student to receive up to 150 percent of the student's Federal Pell Grant Scheduled Award for an award year (if all conditions are met).

### Eligibility for Federal Supplemental Educational Opportunity Grant (FSEOG)

The Federal Supplemental Educational Opportunity Grant (FSEOG) program is only for undergraduates with exceptional financial need. Pell Grant recipients with the lowest expected family contributions (EFCs) will be considered first for a FSEOG. Similar to the Pell Grant, the FSEOG does not have to be repaid.

### Eligibility for the Federal TEACH Grant

TEACH Grant eligibility is determined after the fall, spring, and summer semester starts. Those students who meet the eligibility requirements will be invited to apply for the TEACH Grant. Students must complete Entrance Counseling and an annual Service Agreement at <https://studentaid.gov/teach-grant-program> (<https://studentaid.gov/teach-grant-program/>).

In exchange for receiving a TEACH Grant, students must agree to serve as a full-time teacher in a high-need field in a public or private elementary or secondary school that serves low-income students.

A TEACH Grant recipient must teach for at least four academic years (within eight calendar years). If a student fails to complete his or her service obligation, all amounts of TEACH Grants that were received will be converted to a Federal Direct Unsubsidized Loan. Students must then repay this loan to the U.S. Department of Education. Interest will be assessed from the date the grant(s) was disbursed. Note: TEACH Grant recipients will be given a six-month grace period before entering repayment if a TEACH Grant is converted to a Federal Direct Unsubsidized Loan. All federal loans require students to be enrolled in at least six (6) credit hours of required coursework each semester to qualify for an in-school deferment.

### Eligibility for Federal Direct Loans

Federal Direct Loans are low-interest loans for eligible students to help cover the cost of higher education. Federal Direct Subsidized Loans are for students with financial need. Students are not charged interest while in school at least half time and during grace periods and deferment periods.

Students are not required to demonstrate financial need to receive a Federal Direct Unsubsidized Loan. Students can pay the interest while in school and during grace periods and deferment or forbearance periods, or students can allow it to accrue and be capitalized (that is, added to the principal amount of the loan). Students who choose not to pay the interest as it accrues will have an increased total amount to repay because interest will be charged on a higher principal amount.

First time Federal Direct Loan borrowers must sign a Master Promissory Note. The electronic Master Promissory Note (e-MPN) is the agreement to pay back any Direct Loans.

The e-MPN is available online (<https://studentloans.gov/myDirectLoan/index.action/>).

On-line Entrance Counseling is required for first-time Direct Loans borrowers. Entrance Counseling will educate students on the rights and responsibilities associated with receiving funds that must be repaid. To satisfy the online Entrance Counseling (<https://studentloans.gov/myDirectLoan/index.action/>) requirements, the student must complete the tutorial and pass a quiz. Failure to comply with this requirement will prevent the disbursement of the student's loan proceeds.

The U.S. Department of Education's issued FSA ID (<https://fsaid.ed.gov/npas/>) is required to complete Entrance Counseling and the e-MPN.

### Eligibility for Federal Direct PLUS Loan for Parents of Undergraduate Students

The Federal Direct PLUS loan is a loan in the parent's name to assist their undergraduate dependent student when there is a gap between the cost of education and the student's own financial aid. These loans are federally regulated and require credit approval. The PLUS loan has a fixed interest rate, and if a parent is not credit worthy, the student may be eligible for an additional Federal Direct Unsubsidized Loan.

If a parent receives credit approval, he or she will also need to complete a Direct PLUS Master Promissory Note at [studentaid.gov](https://studentaid.gov) (<https://studentaid.gov/>). If a parent is applying for a PLUS loan for more than one student in college, a separate MPN is required for each student. If more than one parent is applying for a PLUS loan for the same student, each parent must complete a MPN.

### Eligibility for Federal Work-Study

The Federal Work-Study program provides employment opportunities in various on-campus offices and in off-campus community service agencies. Students who qualify for the Federal Work-Study program will be paid at an hourly rate and receive biweekly paychecks for the hours worked. Federal Work-Study is not be credited to the student's account. It is the responsibility of the student to secure employment. Federal Work-Study positions are limited; therefore, there is no guarantee of eligibility from one year to the next. Students are encouraged to complete the FAFSA by the priority filing date to receive full consideration to participate in the Federal Work-Study program.

Eligible students will receive a letter before the start of the semester with details regarding the steps to use the job database, Online Resource for Career Advancement (ORCA), to research available positions. Students who do not qualify for Federal Work-Study or who are not successful in securing a job may be able to secure employment with the assistance of the Career Development Center located in Cleveland Hall 306.

## Scholarships

Buffalo State offers a variety of scholarship opportunities to current students demonstrating outstanding leadership qualities, academic abilities and/or financial need. These scholarships are based on specific criteria which includes; academic merit, financial need, field of study, or a combination of criteria. Scholarship funding is made possible

through donations from alumni and friends of the college who value a Buffalo State education. Students may log in to the Campus Application Portal for Scholarships (CAPS) (<https://buffalostate.academicworks.com/>) to view and apply for scholarship opportunities. Students need to complete a general scholarship annually and which will auto-match them to applicable scholarships. Some scholarships may require additional tasks. Additionally, staff in the Financial Aid Office, Moot Hall 230, can assist students in locating scholarships offered by agencies not affiliated with Buffalo State.

### Excelsior Scholarship

The Excelsior Scholarship (<https://www.hesc.ny.gov/excelsior/>) pays any remaining tuition charges for NYS residents (must also satisfy other conditions) after the student's other grants and scholarships have been applied.

The scholarship program is designed to promote on-time graduation while reducing college loan debt. Recipients of the Excelsior Scholarship

- may receive up to \$5,500 or actual tuition, whichever is less.
- are eligible to receive award payments for not more than four years of full-time undergraduate study, or five years if the program of study normally requires five years in a program leading to a bachelor's degree.
- must live in New York State for the same length of time the award was received. Failure to meet these requirements will result in the conversion of the award to a no-interest loan.

## Eligibility for New York State Financial Aid

### Required Courses and Student Outcome Tracking

Students must enroll in required courses to qualify for New York State financial aid, such as TAP and the Excelsior Scholarship. Buffalo State systemically reviews students' enrollment for required courses using Student Outcome Tracking (SOT). SOT compares students' enrollment to their Degree Works audit to verify each course that is required and fulfills specific degree requirements. If the SOT process identifies courses not required, students will be notified so they can take the appropriate actions (e.g., change their registration, work with the advisor to update Degree Works, etc.). Students' NYS financial aid will be adjusted after registration ends to reflect the number of required credits they are enrolled in, which could result in a reduction or cancellation of financial aid.

### Eligibility for Tuition Assistance Program

The Tuition Assistance Program (TAP) is a grant program for New York State residents who are enrolled full time (12 or more credit hours per semester). The on-line TAP application can be accessed after completing the FAFSA by linking to it directly from the FAFSA Confirmation Page. If you miss the TAP link after finishing the FAFSA, you must wait five business days until your FAFSA data is received by HESC. After the information is received, you can complete a TAP on the Web (<https://www.hesc.ny.gov/pay-for-college/apply-for-financial-aid/nys-tap.html>) application.

To be eligible for TAP, students must:

Be accepted into a major prior to their completion of 60 credit hours

- Pre-major and undeclared status are unacceptable for TAP purposes once a student has earned 60 credit hours

Enroll full-time each semester only in courses that apply to the program of study or major

- Minimum of 12 new credit hours required
- Enrollment in course(s) previously failed or withdrawn from is allowed as part of the minimum 12 credit hours

Maintain satisfactory academic progress according to the published TAP chart (p. 34).

Students enrolled for less than 12 credit hours can apply for Aid for Part-Time Study (APTS).

### SUNY Tuition Credit (SUNYTC)

SUNYTC is a SUNY grant for TAP-eligible students that helps to offset the rising tuition cost.

## TAP Academic Eligibility Chart

Students who received a TAP payment in 2009 or earlier are evaluated under a different eligibility chart. EOP students are also evaluated under a different eligibility chart.

Event	1st	2nd	3rd	4th	5th	6th	7th	8th	9th <sup>1</sup>	10th <sup>1</sup>
(Having accrued this many TAP points <sup>2</sup> )	0-5	6-11	12-17	18-23	24-29	30-35	36-41	42-47	48-53	54-59
A student must have completed this many credit hours with a passing or failing grade in the prior semester	0	6	6	9	9	12	12	12	12	12
Must have accrued at least this many credit hours	0	6	15	27	39	51	66	81	96	111
With at least this cumulative GPA	0.0	1.5	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0

<sup>1</sup> Only EOP students can receive a ninth or 10th payment.

<sup>2</sup> TAP payments are measured by TAP points, with students usually being charged six points every semester they receive a TAP award.

## Eligibility for Aid for Part-Time Study

Aid for Part-Time Study (APTS) is a grant program for New York State residents who are enrolled for 3–11 credit hours per semester.

Applications are available on-line (<https://financialaid.buffalostate.edu/forms/>) and in the Financial Aid Office, Moot Hall 230.

## Satisfactory Academic Progress (State)

To receive TAP/APTS, students must be in good academic standing as defined by two components: pursuit of program and satisfactory academic progress. Pursuit of program tracks withdrawal from courses that result in a student being enrolled for fewer than 12 credit hours in a semester. Satisfactory academic progress looks at both a student's cumulative GPA and the accumulation of credit hours toward a degree. A student's academic standing is then measured on the TAP Academic Eligibility Chart, above.

It should be noted that when using the chart, only semesters that a student receives a TAP/APTS payment are considered. Students who first receive TAP grants at the start of their junior year would be required to meet the standards represented by the first column. Students are limited to receiving eight semesters of TAP grants, except EOP students, who can receive 10 semesters of TAP. All students must be accepted into a major prior to completing 60 credit hours to continue to be eligible for TAP/APTS. Pre-major and undeclared status are unacceptable for TAP/APTS purposes once a student has earned 60 credit hours.

Students who fail to maintain good academic standing become ineligible for TAP/APTS until they achieve the appropriate standards. In exceptional situations, students who become ineligible may be granted a one-time waiver of their ineligibility. All waiver requests should be submitted to the Academic Standards Office, Twin Rise 100.

## Arthur O. Eve Educational Opportunity Program (EOP)

The Arthur O. Eve. Educational Opportunity Program (EOP) provides educational access for academically and economically disadvantaged students who reside in New York State. EOP is an alternative means of acceptance to Buffalo State for students who show ability and motivation despite the effects of economic and academic struggles. Students who do not meet the college's general academic admissions standards may instead qualify for admission through EOP. Application for the program is made on the SUNY Application for Admission. Students who are not initially admitted into Buffalo State through EOP cannot join the program at a later time.

## Military, Veteran, and Dependent Benefits

### Campbell Student Union 417

Military, Veterans, and/or Dependents (i.e., Spouse/Child) may be able to receive aid for approved postsecondary study. To find out what the student's eligibility is, please contact Veteran and Military Services at (716) 878-3600.

[vetservices@buffalostate.edu](mailto:vetservices@buffalostate.edu)

Veterans and Military Services Office (<https://inclusion.multistg.buffalostate.edu/veterans-and-military-services-0/>)

## Aid for Students with Disabilities

Students with disabilities pursuing higher education may be eligible for assistance through the state Adult Career and Continuing Education Services – Vocational Rehabilitation (<http://www.acces.nysed.gov/vr/>) (ACCES-VR) or Office of Children and Family Services, Commission for the Blind and Visually Handicapped (<http://www.ocfs.state.ny.us/main/cbvh/>) (CBVH). Criteria and funding vary.

Applications and eligibility requirements may be obtained at the Buffalo-area offices or at your local area offices for ACCES-VR and CBVH.

## Eligibility for Native Americans

The U.S. Bureau of Indian Affairs offers need-based grants for college to applicants who are enrolled tribal members of an American Indian, Eskimo, or Aleut tribe, band, or group recognized by the Bureau of Indian Affairs. An application is necessary for each year of study and must be accompanied by an official needs analysis from the Financial Aid Office after submission of the FAFSA.

First-time applicants also must submit tribal enrollment certification from the bureau, agency, or tribe that records enrollment for the tribe. Applications are available from the education office of the tribe, band, or group with which you are affiliated or possess membership. For further information, contact the Bureau of Indian Education at (202) 208-6123 or [www.bie.edu](http://www.bie.edu) (<http://www.bie.edu>).

New York State also offers grants to Native Americans who are members of one of the Native American tribes located on reservations within New York State. Applications and program details may be obtained from:

The Native American Education Program Unit  
State Education Department, Room 461EBA  
Albany, NY 12234  
(518) 474-0537.

## Eligibility for Summer Aid

Students are encouraged to seek guidance from the Financial Aid Office before registering for summer classes.

Summer financial aid eligibility is predicated upon a student's remaining eligibility from the fall and spring semesters. However, Pell grant eligibility for students graduating during the summer or fall semesters may be calculated based on the valid FAFSA from the upcoming academic year.

# Eligibility for Study Abroad Programs

Many Buffalo State students take advantage of the National Student Exchange (NSE) and Study Abroad programs. Financial aid is available for both of these programs. Students must submit the official exchange budget sheets to the Financial Aid Office, as well as have a processed FAFSA on file to receive federal financial aid for participation in the NSE and Study Abroad programs. **Aid can only be approved for required courses.**

To receive TAP for either of these programs, tuition payment must be to a New York State institution.

## Award Notification

After you are accepted and have a valid Free Application for Federal Student Aid (FAFSA) on file, the Financial Aid Office will generate a SUNY Financial Aid Plan (FAP) detailing the aid you are eligible to receive based on program eligibility requirements. Students must accept, revise, or decline award(s) by the prescribed deadline date. Failure to accept aid by the deadline date may result in the loss of some types of financial aid.

The Financial Aid Office will send an e-mail notification directing them to view their award package online in Banner. All students are given the opportunity to accept as is, reduce or decline any award offered via Banner. Some aid programs require additional steps to complete the application process.

All students are responsible for monitoring their campus e-mail and their financial aid status on-line by accessing Banner.

### TAP Notification

New York State TAP award notifications are sent to students directly from Higher Education Services Corporation (HESC) shortly after the state budget is set each year. TAP awards are school specific and must have "SUC Buffalo" on the certificate to be valid at Buffalo State; TAP code is 0905. Actual award dollars are sent directly to the Student Accounts Office.

## Academic Policies

The following college academic procedures, policies, and guidelines apply to all students and all college sessions. Students are responsible for determining their academic programs and for meeting every degree requirement. Faculty or professional staff who act as advisers are obligated only to assist students in meeting this responsibility. Clarification of any requirements for the baccalaureate degree may be obtained from the academic adviser, department chair, or academic dean. The Academic Success Office (<https://academicsuccess.buffalostate.edu>), Twin Rise 100, (716) 878-5222, can provide clarification on other regulations and procedures. A non-exhaustive list of highlighted academic policies is provided on the Academic Affairs website (<https://academicaffairs.buffalostate.edu/academic-policies/>).

# 4 + 1 Undergraduates Enrolling in Graduate Courses

Students who have been accepted into one of Buffalo State's 4+1 pathways that combines undergraduate and graduate study may register for graduate-level courses during their senior year based on department requirements and guidance. A maximum of 12 credit hours (divided between the first and second semester of a student's senior year) may be taken during the senior year, and students need to maintain academic eligibility throughout the senior year as outlined by the admission requirements into the program. The combined enrollment of undergraduate and graduate courses should not exceed departmental guidelines.

The graduate courses taken in this manner are related to a graduate program of study and will not apply toward an undergraduate degree. The six-year limitation on the completion of the master's degree program applies to these as well as other credits.

## Academic Advisement

Incoming freshman (first-time students) are each assigned a professional (staff) adviser upon entry into Buffalo State. Some departments choose also to affiliate students with major (faculty) advisers in their first year. As a result, every incoming first-time student will have one or more adviser. Transfer students are assigned their faculty adviser within their major, or a professional adviser if they are undeclared.

Each professional adviser is affiliated with a department or set of departments. Professional advisers work with first-time students through their first 24 credits. Students with a declared major are assigned a faculty adviser within their major once they have completed 24 earned credits. Undeclared students continue with a professional adviser until they have declared a major and earned 24 credits.

Advisement for students affiliated with the Arthur O. Eve Educational Opportunity Program (EOP) should contact EOP for advisement. All other advising inquiries are addressed in the Advising Center, Butler Library 149.

Refer to Role of Students and Faculty in the Advisement Process (<https://ecatalog.buffalostate.edu/undergraduate/academic-policies/role-students-faculty-advisement-process/>).

## Academic Calendar

Academic Calendar (<https://suny.buffalostate.edu/academic-calendar/>)

Students should consult the online Buffalo State calendars—both the College Calendar and the Academic Calendar—for important dates, deadlines, term start and end dates, registration and course withdrawal dates, degree application deadlines, all-college events, student events, etc.

# Academic Clemency

Any student with a Buffalo State GPA less than 2.0 is eligible to apply for academic clemency when he or she applies for matriculated readmission to the college through the Admissions Office. The student's last semester of enrollment must have been at least three years prior to the application for readmission. Students can request clemency for up to two semesters of work (consecutive or nonconsecutive). These semesters are to be determined by the student in consultation with appropriate offices (dean, Educational Opportunity Program, etc.). A decision of clemency includes all coursework taken within the semester(s) at Buffalo State; it is not selectively applied.

Any mathematics or English competency requirements fulfilled during the clemency period will still be recognized. However, any credit hours associated with these requirements will be removed and must be replaced with other coursework.

Clemency is applied only after a student has registered for an upcoming semester.

Refer to DOPS Policy I:16:09 (<http://bscintra.buffalostate.edu/dops/policysect1/011609.pdf>).

# Academic Levels (Class Level)

Students are designated by class level according to the number of credit hours they have earned. Undergraduate levels are:

Class Designation	Credit Hours
Freshman	0 to 29
Sophomores	30 to 59
Juniors	60 to 89
Seniors	90 or more

\*Earned Credits: Credit hours that are counted toward class level include only credit hours that are completed and graded. Credit hours that the student is currently taking or for which they are registered for an upcoming term (i.e., credit hours "in progress") are not counted toward class level.

# Academic Minors

Buffalo State academic minors are specially conceived sequences of courses designed to allow students to achieve important goals. A minor may be used to complement the major course of study, broaden and enhance career opportunities, gain expertise in an area of interdisciplinary studies, or provide in-depth study in a subject of special interest. While an academic minor is an optional study program, students often find it an excellent way to make strategic use of all college elective courses.

Each minor program consists of 18–21 credit hours of coursework. A minimum 2.0 cumulative GPA is required for admission to a minor program and at least three of the courses in each minor must be completed at the college.

Students may not elect a minor from the same discipline as their major program. A minor must include at least 9

distinct credit hours (i.e., not overlap with primary major requirements or overlap with the requirements of a minor or concentrations). A minor may include no more than half of its credit hours at the lower-division level. Students who complete the minor with a minimum 2.0 GPA will have the minor recorded on their official transcript.

Students interested in selecting a minor program should contact the coordinating department as soon as possible and complete an Undergraduate Change or Commit Form (<https://registrar.buffalostate.edu/sites/registrar.buffalostate.edu/files/uploads/Documents/forms/MajorChangeForm.pdf>) for Major, Certificate, Minor, Second Major, Dual Degree. A listing of all minors and requirements is on file in each department and dean's office. Only the coordinating department provides advisement on individual minors.

For a list of minors, please refer to Undergraduate Minor Programs at a Glance (p. 68) chart.

# Academic Misconduct

Academic Standards Office  
Twin Rise Center 100  
(716) 878-5222

[academicstandards.buffalostate.edu](https://academicstandards.buffalostate.edu) (<https://academicstandards.buffalostate.edu/>)

All students are expected to display honesty and integrity in completing course requirements and college academic regulations. "Academic misconduct" refers to any form of plagiarism, fraud, or cheating in connection with academic coursework and is inconsistent with the aims and goals of Buffalo State College.

Examples of academic misconduct includes but is not limited to the following:

- **Aiding in academic dishonesty.** Knowingly taking action that allows another student to engage in an act of academic dishonesty including but not limited to completing an examination or assignment for another student or stealing an examination or completed assignment for another student.
- **Cheating.** Includes but is not limited to (1) use of any assistance not authorized by the course instructor(s) in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources beyond those authorized by the course instructor(s) in writing papers, preparing reports, solving problems, or carrying out other assignments; or (3) stealing tests or other academic material belonging to the course instructor(s).
- **Falsifying academic materials.** Fabricating laboratory materials, notes, reports, or any forms of computer data; forging an instructor's name or initials; resubmitting an examination or assignment for reevaluation that has been altered without the instructor's authorization; or submitting a report, paper, materials, computer data, or examination (or any considerable part thereof) prepared by any person other than the student responsible for the assignment.
- **Misrepresenting documents.** Forgery, alteration, or misuse of any college or official document, record, or instrument of identification.

- **Plagiarizing.** Copying or receiving material from any source and submitting that material as one's own, without acknowledging and citing the particular debts to the source (quotations, paraphrases, basic ideas), or in any other manner representing the work of another as one's own.
- **Purchasing academic assignments.** Purchasing an academic assignment intended for submission in fulfillment of any course or academic program requirement.
- **Selling academic assignments.** Selling or offering for sale any academic assignment to any person enrolled at Buffalo State. No person shall offer any inappropriate assistance in the preparation, research, or writing of any assignment, which the seller knows, or has reason to believe, is intended for submission in fulfillment of any course or academic program requirement.
- **Submitting previously submitted work.** Submitting academically required material that has been previously submitted, in whole or in substantial part, without prior and expressed consent of the instructor.
- **Turnitin.com.** Faculty may require students to use textual similarity detection software (e.g., Turnitin.com (<http://www.turnitin.com>)) in courses at Buffalo State College. This software may be used as an educational tool to assist students in learning how to properly cite resources, decrease instances of academic misconduct, or assist in the identification of acts of academic misconduct.

Students are to refer to the Academic Misconduct Policy (<http://bscintra.buffalostate.edu/dops/policysect8/080400.pdf>) for the full policy that includes statements on notification, due process, and timeliness; composition of Academic Misconduct Committee, Resolution of Academic Misconduct Allegations, and the procedures for resolving an allegation of academic misconduct including potential outcomes. A statement outlining formal college policies and procedures to be followed in cases of alleged academic misconduct will be on file in each academic dean's office, in the Academic Success Office, in the Student Leadership and Engagement Office, and online (<http://bscintra.buffalostate.edu/dops/policysect8/080400.pdf>). Cases of severe infractions of acceptable standards may be brought before the Academic Misconduct Board and may result in academic dismissal.

Refer to DOPS Policy VIII:04:0 (<http://bscintra.buffalostate.edu/dops/policysect8/080400.pdf>). Refer to DOPS Policy I:17:03 (<http://bscintra.buffalostate.edu/dops/policysect1/011703.pdf>).

## Academic Probation and Dismissal

Academic Standards Office  
Twin Rise Center 100  
(716) 878-5222

[academicstandards.buffalostate.edu](https://academicstandards.buffalostate.edu) (<https://academicstandards.buffalostate.edu>)

### Good Academic Standing

All students not on Academic Probation are considered to be in good academic standing and are eligible to participate in extracurricular activities at Buffalo State. Any Buffalo

State student with a cumulative GPA of a 2.0 or above, on Academic Warning, or on Academic Probation is eligible to register for coursework at Buffalo State.

### Academic Warning

Many students go through an adjustment period when beginning their baccalaureate studies at Buffalo State. Therefore, any student—freshman or transfer—whose first-semester GPA is less than 2.0 and who has not met any of the terms for academic dismissal from Buffalo State will be on academic warning in his or her second semester of study at Buffalo State. However, if a student's GPA is less than 2.0 and the student has met one or more of the reasons for academic dismissal from Buffalo State, the student may still be immediately dismissed at the discretion of the college. A student on academic warning has until the completion of the next semester (i.e., spring or fall) to raise the cumulative GPS to 2.0 or higher.

In accordance with Buffalo State's Advisement Policy, students on Academic Warning may be subject to an advisement hold in order to encourage a discussion with the student's academic adviser to help build an effective academic strategy before the student may register for additional coursework at Buffalo State. An extended Academic Warning semester may be granted at the discretion of the college if the student has demonstrated exceptional academic progress during the Academic Warning term. Students on Academic Warning may be ineligible for financial aid based on failure to meet federal and/or state aid eligibility standards. Students on Academic Warning are limited to registering for 15 credits per semester unless special permission to register for additional credits is granted by the academic dean's office.

### Academic Probation

A student is on Academic Probation if the student's cumulative Buffalo State GPA is less than 2.0 following the second semester of study at Buffalo State. However, if a student's GPA is less than 2.0 and the student has met one or more of the reasons for academic dismissal from Buffalo State, the student may be immediately dismissed at the discretion of the college without a probationary semester. A student on Academic Probation has until the completion of the next semester (i.e., spring or fall) to raise the cumulative GPA to 2.0 or higher.

In accordance with Buffalo State's Advisement Policy, students on Academic Probation may be subject to an advisement hold to encourage discussion with the student's academic adviser and help build an effective academic strategy before the student may register for additional coursework at Buffalo State. Students on Academic Probation may be ineligible for financial aid based on failure to meet federal and/or state aid eligibility standards. Students on Academic Probation are not eligible to participate in extracurricular college activities. Students on Academic Probation are limited to registering for 15 credits per semester unless special permission to register for additional credits is granted by their academic dean's office.

### Academic Dismissal

Students are reviewed for Academic Dismissal at the end of each academic term (fall, spring, and summer).

Each dismissed student will receive official notification via U.S. mail to the student's address of record with the

college or the student's Buffalo State e-mail account, and all future academic-year registrations and on-campus housing reservations will be removed. Dismissal appeal guidelines and deadlines are communicated to the student in the dismissal notification sent by the assistant provost for Academic Success and can be found online (<https://academicstandards.buffalostate.edu/academic-standing/>).

Students may be dismissed from Buffalo State for the following reasons:

1. Unsuccessfully completing (i.e., E, F, U, I, N, X, or W) one half or more of a semester's work.
2. Failing to satisfy Academic Warning or Academic Probation requirements.
3. Failing any course for the third time.
4. Failing to complete basic skills requirements (e.g., the Intellectual Foundation's Basic Communication and Mathematics/Quantitative Reasoning requirements) by the end of their sophomore year.
5. Determination of an academic misconduct offense.

Students who have been academically dismissed must wait one full year from the time of dismissal before being considered for readmission and/or nonmatriculated enrollment at Buffalo State. A dismissed student may not attend Buffalo State Summer or January-Term Session courses. If readmitted, all coursework taken previously at Buffalo State will be considered in computing the cumulative average unless the student has opted for Academic Clemency. All prior Buffalo State coursework, including clemency-bearing credits, will be used in calculating the readmitted student's federal and state financial aid eligibility at Buffalo State. Readmission forms are available in the Admissions Office, Moot Hall 110.

### Academic Eligibility for Financial Aid

Financial aid guidelines require that to continue to receive financial aid, students must show evidence of making satisfactory academic progress toward a degree. For additional information about financial aid eligibility, refer to the financial aid section of this catalog or see [financialaid.buffalostate.edu](https://financialaid.buffalostate.edu) (<https://financialaid.buffalostate.edu>).

Refer to DOPS Policy I:17:00 (<http://bscintra.buffalostate.edu/dops/policysect1/011700.pdf>).

## Adding or Dropping Courses

Registration is continuous from the opening of registration through the end of the first week of classes. Dropping a course during that time removes all record of the course from the student's transcript. Registration dates and instructions are updated each semester on the Registrar's website (<https://registrar.buffalostate.edu/registration/>). By the close of registration, students should recognize that they have made a serious commitment to complete the courses for which they are registered. It is expected that students will complete any necessary changes to their schedules before the first day of classes in a semester or Summer Session. Changes during the first week of classes, or the first two days of a Summer Session or January Term, should be the exception.

## Alternative Methods of Earning College Credit

### Advanced Placement Examinations

Credit may be granted for acceptable scores in approved Advanced Placement examinations, provided the subjects meet the curricular requirements of the specialized units of the college. Approved examinations include New York State College Proficiency Examinations (CPE), College Entrance Examination Board Advanced Placement Examinations (AP), International Baccalaureate (IB), and College Entrance Examination Board College Level Examinations (CLEP).

Students receiving the lowest passing grade may be admitted to an advanced course but will receive no credit for the beginning course that was exempted. All other passing grades carry college credit. Before taking such an examination for credit, students already enrolled at the college must receive advance approval from the appropriate department chair. When the examination subject is the same as or overlaps a college course already credited, no new credit will be granted.

International Baccalaureate (IB) credits may be granted for standard level IB courses or high level IB courses for which a score of 4 or better was earned on exams. Credit awarded may range from 3#4 credits and varies per course and level. Students may be awarded no more than 30 credits total through published examinations.

### Credit by Evaluation (Undergraduate)

Up to 45 credit hours may be accepted from the following sources:

Source	Maximum Credit Hours
Published examinations (no more than 18 credit hours may be in general examinations.)	30
Course challenge	30
Military Service Credits	15
Non-collegiate institutions	15
Proprietary institutions	15

*Published Examinations:* Included in this category are nationally given subject and general examinations sponsored by the College Level Examination Program (CLEP), Advanced Placement Program (AP), International Baccalaureate (IB), and College Proficiency Examination (CPE). Passing grades are required for credit.

*Course Challenge:* Requirements are listed in Course Challenge section of this policy.

*Courses from Non-Collegiate Organizations:* For credits to be granted, the institution must be approved by the State Education Department and listed in its Guide to Educational Programs in Non-collegiate Organizations. Non-collegiate organizations are those whose primary function is not education, such as the American Institute of Banking. Such credit applies primarily to the major and is determined by the appropriate department.

*Proprietary Institutions:* The institution must be approved by the State Education Department and listed in its official publication of approved institutions. Proprietary institutions



are privately owned and for profit, such as Bryant & Stratton Business Institute. Such credit is applied primarily to the major and is determined by the appropriate department.

### Course by Contract

Taking a course by contract is one form of independent study open to students who have reached sophomore level and are in good academic standing. Graduate students who have been accepted to a degree program and are in good standing may request to take a course by contract by contacting the department offering the course. For a graduate course by contract, the instructor must be a member of the college's graduate faculty. The course must be among those already approved by the college. Courses may be taken by contract only if they are not offered in the regular schedule during the semester involved.

Under this option, a faculty member (graduate faculty member for a graduate course) provides the student with a course outline, bibliography, and a statement of responsibilities and dates by which these are to be met. The number of student-instructor conferences, the type of evaluation, and the culminating activity are determined by the faculty member and the student prior to registration for the course. These requirements must be filed with the department chair.

Before initiating a course by contract, the student must register for the course using the Individual Course by Contract Application form, obtained from the department office, the Registrar's Office, the Graduate School, or <https://graduateschool.buffalostate.edu/forms>. This form must be signed by the instructor, the department chair, and the school dean by the Individual Study Application deadline. Consult the academic calendar at <https://suny.buffalostate.edu/academic-calendar>.

Freshmen also are eligible to take courses by contract under special circumstances. They may do so if:

1. They are in their second semester of a one-year course and have a grade of A or B in the first semester part of the course.
2. They have successfully challenged the preceding course in the sequence.
3. They have entered the college with excellent high school records or have done honors work in pertinent fields in high school

### Course Challenge

A course challenge may be used to request college credit for a Buffalo State course when the course objectives and student learning outcomes have been previously met. Each department determines whether credit for a successful course challenge may be applied to the major or minor.

The following rules apply:

1. A student must be matriculated to challenge a course.
2. The department determines the challenge method, which may include but is not limited to examination, portfolio, performance, or presentation.
3. No credit will be awarded when the challenged course duplicates a course for which credit has already been earned (except in the specific case of a repeatable course), a course for which a grade has already been earned, or a course in which a student is currently enrolled.

4. Credit earned will be recorded as credit only (CR) rather than as a grade.
5. A student may not receive more than 30 undergraduate credits or 6 graduate credits through course challenge.
6. The grade grievance policy can be invoked by a student who wishes to appeal an unsuccessful course challenge.

### Credit for Experiential Learning

Credit for college-level experiential learning is available. Matriculated students who consider their previous learning experience as college-level creditable may enroll in INS 300, Educational Assessment and Portfolio Development. This course is open to matriculated students, who must attend an information session in August to become familiar with the portfolio development process. In INS 300, students will conduct a self-appraisal and inventory of all potentially creditable prior learning. The portfolio will be treated as an application to appropriate departments for the award of college credit.

Within the guidelines, credit for experiential learning follows essentially the same principle as transfer credit—students may receive credit for knowledge gained elsewhere. Students may receive a maximum of 30 credit hours. Credit will be awarded on the basis of its correspondence to existing Buffalo State courses. Credit earned will be recorded as credit only (CR), rather than by grade.

For information regarding credit for experiential learning, students should contact the Individualized Studies coordinator, South Wing 310, (716) 878-5303.

### Cross Registration

SUNY Cross Registration Deadlines (<https://registrar.buffalostate.edu/suny-cross-registration-deadlines/>)

#### SUNY Cross Registration

The SUNY Cross Registration Agreement is for students cross registering at SUNY institutions and is for matriculated (declared major), undergraduate-level students and graduate-level students. Most SUNY schools participate in this agreement.

- There is no credit hour limit per semester.
- The student must be an active and matriculated Buffalo State student.
- Credits from the host SUNY institution are brought back to the home college (Buffalo State) as credits earned. (Credit hours count toward program completion, and final grade **DOES** count in cumulative GPA.)
- Some local fees (for example, parking permit) may be charged to the student by the host SUNY institution.
- Cross-registration is available at Buffalo State for the fall and spring semesters and on a limited basis in Summer Session and January term.
- The student is billed Buffalo State tuition and fees and is responsible for payment.
- SUNY Cross Registration link for application: <http://www.suny.edu/crossregister> (<http://www.suny.edu/crossregister/>).
- The student is responsible for providing proof of county residency to the host SUNY institution.

- The student may be billed directly by the host SUNY institution for college fees and course fees if applicable.

Direct SUNY cross registration inquiries to [crossregistration@buffalostate.edu](mailto:crossregistration@buffalostate.edu).

### Restrictions for SUNY Cross Registration

- The student must be in Good Academic Standing.
- The requested host SUNY course must be one that is not offered at Buffalo State or is at capacity for the requested semester.
- The student must identify his or her adviser who will accept or deny the cross registration request. All acknowledgements will be received through the workflow built into the electronic request system.
- The host SUNY course may not be a duplicate of a current enrollment at Buffalo State.

### WNY Undergraduate Consortium

Western New York (WNY) Consortium Undergraduate Cross Registration is for students cross registering at one of the local private colleges in the WNY Consortium agreement and is for full-time, matriculated (declared major), undergraduate-level students only. The full list of participating schools is provided on the Registrar's cross registration website. The deadline for the WNY Consortium typically is in mid-August or mid-January. Consult the Buffalo State Academic Calendar <https://suny.buffalostate.edu/academic-calendar> for specific dates by term.

Direct WNY Consortium cross registration inquiries to [Regofc@buffalostate.edu](mailto:Regofc@buffalostate.edu).

### Student Guidelines for WNY Consortium Cross Registration

- Buffalo State students may cross register at one of the private colleges listed on the Registrar's cross registration website that participates in the WNY Consortium agreement. Students must abide by the rules, regulations, and deadlines of the host private institution where he or she cross registers.
- A student may cross register only for the approved course that is listed on the application forms.\*
- There is a one cross-registration course limit per semester (fall and spring).
- Students must continue as full-time Buffalo State students during the semester in which they cross register to be eligible to receive credit through the cross registration program. A student who drops below full-time status forfeits any credits earned at the host private institution.
- Students may register for undergraduate courses only.
- Students may not register for independent study.
- Credit hours and final grade count toward the cumulative grade point average.
- There is no WNY Consortium cross registration program during January Term or Summer Session; no exceptions.
- The host private institution will forward the final transcript/grade directly to Buffalo State at the end of the term.

\*WNY Consortium application form (<https://registrar.buffalostate.edu/sites/>)

[registrar.buffalostate.edu/files/uploads/Documents/forms/crossregistrationprivate2.pdf](https://registrar.buffalostate.edu/files/uploads/Documents/forms/crossregistrationprivate2.pdf)) provided as a PDF in the Forms and Services section (<https://registrar.buffalostate.edu/forms-and-services/>) on the Registrar's website. Also, paper forms are provided in the lobby at the Registrar's Office, Moot Hall 210.

### Off-Campus Study

Courses may be taken at other institutions for transfer credit as long as prior approval from the department chair is obtained and the Study Off Campus Form (<https://registrar.buffalostate.edu/sites/registrar.buffalostate.edu/files/uploads/Documents/forms/OffCampusStudyForm3.pdf>) from the Registrar's Office (provided in the Forms and Services section (<https://registrar.buffalostate.edu/forms-and-services/>) of the Registrar's website) is completed and returned to that office. Students are urged to have transcripts for all coursework completed elsewhere forwarded to the Registrar's Office as soon as possible. Coursework undertaken elsewhere other than by cross registration will be recorded as transfer credit on the college transcript.

### Independent Study (499, Undergraduate)

Independent study provides students the opportunity to pursue topics that may be covered only briefly or not at all in regular course offerings. Students may choose a faculty sponsor who is an expert in the selected topic and together determine all aspects of the study, including the method of evaluation. The chair of the sponsoring department must approve the description of the study.

Students electing to do independent study should have a degree of knowledge in the area they have chosen, in addition to a strong motivation to work alone much of the time. Independent study is never a substitute for a course already being offered that term.

Specific requirements for undergraduate independent study are:

1. Sophomores, juniors, and seniors who have successfully completed basis courses or their equivalent in the area of study chosen are eligible to participate. A minimum 2.0 cumulative GPA and a minimum 2.0 GPA the previous semester, plus a minimum 2.0 GPA in work completed in the selected area are required. Freshmen who have successful advanced preparation in the selected area may also be allowed this option.
2. The study must be relevant to the student's total program, and the student must derive special benefit from supervision by the college staff. The study must meet standards established for such programs by the department or program.
3. No independent study may be undertaken for fewer than 3 credit hours. A maximum of 30 credit hours in all areas may be taken independently by a student. No more than two independent studies may be taken in one semester.

Further information is available from the department chair and program coordinator. Application forms are available in the academic department and the Registrar's Office and must be filed with that office by the deadline date published in the class schedule each semester.

## Independent Study (590, Graduate)

Independent study provides the opportunity for graduate students to pursue topics that may be covered only briefly or not at all in regular course offerings. Independent study is never a substitute for a regular course.

Independent study may be offered by any member of the college's graduate faculty. All independent study is listed by the appropriate content area prefix and the number 590 (e.g., EDF 590). A maximum of 6 credit hours of independent study may be included in a master's degree program.

Students must register for graduate-level independent study by completing the Individual Graduate Study Application, available from academic departments, the Graduate School, or <https://graduateschool.buffalostate.edu/forms>. The application must include a written paragraph describing the proposed course, including the purpose, objectives, method of instruction (e.g., readings, individual consultations with instructor, etc.), and method of evaluation (e.g., research paper, examination, etc.). The application must be signed by the instructor, the department chair, and the school dean by the Individual Study Application deadline. Consult the Academic Calendar (<https://suny.buffalostate.edu/academic-calendar/>) for appropriate deadlines.

## Lower-division Project (295, Undergraduate)

Special provision must be made to ensure adequate planning and approval to facilitate lower-level undergraduate credit-bearing project courses.

Undergraduate students may undertake projects related to required courses for up to 3 credit hours per project. No more than 6 credit hours of academic project work is allowed. Application forms are available in the academic department and the Registrar's Office and must be filed with that office by the deadline date published in the class schedule each semester.

## Upper-division Project (495, Undergraduate)

Upper division students may undertake projects related to required courses for up to 3 credit hours per project. No more than 6 credit hours of academic project work is allowed. Application forms are available in the academic department and the Registrar's Office, and must be filed with that office by the deadline date published in the class schedule each semester.

## Workshops (594, Graduate; 596, Conferences; 598, Micro-courses)

Workshops, conferences, and micro-courses are graduate courses offered at variable times and places in particular themes outside the usual schedule of classes. These courses also carry variable credit. A maximum of 6 credit hours of workshops, conferences, and micro-courses may be included in a master's degree program. Workshops emphasize process and implementation of theory and involve participants in accomplishing individualized objectives on specific themes. A conference emphasizes a unique, one-time experience on a given theme. A micro-course offers intensive instruction with a specific, limited objective.

## Internship (488, Undergraduate)

Internship programs provide students with guided and supervised field experiences (experiential learning) as part

of their degree programs. Students who wish to participate in the program must have a minimum cumulative 2.0 GPA and a background of courses or experience within the area of interest. Approval for experiential learning situations must be obtained from either the student's adviser or the chair of the department within which the student is a major, the supervising faculty member, and the chair of the department within which credit will be granted. An individual student will be permitted to apply a maximum of 15 credit hours toward the baccalaureate degree.

## Topics Courses (189 and 389, Undergraduate)

The topics format provides the opportunity for in-depth study and examination of rapidly and significantly changing disciplinary issues, topics, or practices, and may be used to accommodate requests of external agencies or the specialized resources of visiting faculty members. Students may accumulate a maximum of 9 credit hours in one discipline.

## Topics Courses (587 and 687, Graduate)

### Lower-Division Option for Graduate-Level Topics Courses

#### (Prefix will indicate department) Topics (587, Graduate)

Special provision must be made to ensure adequate planning and approval to facilitate lower-division graduate-level credit-bearing topics courses.

Students may accumulate a maximum of 6 credit hours of graduate topics courses in a master's degree program. Application forms are available in the academic department and the Registrar's Office, and must be filed with that office by the deadline date published in the class schedule each semester.

<b>Title Variable:</b>	Yes.
<b>Repeatable:</b>	Limit two times.
<b>Credits:</b>	Variable, 1#3.
<b>Course Description:</b>	Special Topics Course (graduate level).
<b>Prerequisite:</b>	Instructor permission.

1. The College Senate Curriculum Committee does not review special topics courses.
2. Topics course proposals must include all the information contained in a new course proposal. See College Senate Curriculum Handbook Course Proposal Submission Policy.
3. Three copies of topics course proposals are sent to Academic Affairs for approval. Each topics course approved by Academic Affairs may be offered no more than twice in a two-year period. Thereafter, it must be submitted as a new course proposal.
4. Dean forwards the Topic Course Approval form to Academic Affairs.

### Upper-Division Option for Graduate-Level Topics Courses

#### (Prefix will indicate department) Topics (687, Graduate)

Special provision must be made to assure adequate planning and approval to facilitate upper-division graduate-level, credit-bearing topics courses.

Students may accumulate a maximum of 6 credit hours of graduate topics courses in a master's degree program. Application forms are available in the academic department

and the Registrar's Office and must be filed with that office by the deadline date published in the class schedule each semester.

**Title Variable:** Yes.  
**Repeatable:** Limit two times.  
**Credits:** Variable, 1#3.  
**Course Description:** Special Topics Course (graduate level).  
**Prerequisite:** Instructor permission.

1. The College Senate Curriculum Committee does not review special topics courses.
2. Topics course proposals must include all the information contained in a new course proposal. See College Senate Curriculum Handbook Course Proposal Submission Policy.
3. Three copies of topics course proposals are sent to Academic Affairs for approval. Each topics course approved by Academic Affairs maybe offered no more than twice in a two-year period. Thereafter, it must be submitted as a new course proposal.
4. Dean forwards the Topic Course Approval form to Academic Affairs.

**Military Service Educational Experience (Undergraduate)**  
 Up to 15 college credit hours may be awarded for education received through military service, specialty schools, technical training schools, and basic training programs. Request for such credit should be made to the Admissions Office. Documents showing completion of such courses should accompany all requests.

Evaluation of this experience is based on its relation to college degree requirements and recommendations suggested by the American Council on Education Credit Manual.

Refer to DOPS Policy I:04:01 (<http://bscintra.buffalostate.edu/dops/policysect1/010401.pdf>).

## Assessment of Student Learning

Cleveland Hall 519  
 (716) 878-5550

Assessment and Continuous Improvement (<https://institutionaleffectiveness.buffalostate.edu/assessment-continuous-improvement/>)

Buffalo State is committed to providing high-quality educational experiences to its students. Assessment of student learning and use of assessment results are core strategies used to continuously improve upon the effectiveness of all academic and support programs offered to students. Assessment processes are ongoing, systematic, and involve the use of direct and indirect sources of evidence that provide opportunities to recognize educational trends and develop a sound basis for academic planning.

## Attendance

Buffalo State sets no uniform attendance policy. Attendance regulations are established by each instructor and will be distributed at the start of each semester.

## Auditing Courses

Persons may audit or take courses without earning credit on a space-available basis with the approval of the course instructor. The auditor's role beyond attending the course, such as completing assignments, receiving instructor feedback, and taking exams, should be agreed upon with the instructor but at no time will the student receive a grade in the audited course nor be charged a fee or tuition for the course. All participants must complete an Official Permission to Audit a Course Form (<https://registrar.buffalostate.edu/sites/registrar.buffalostate.edu/files/uploads/Documents/registration/AuditingCourses.pdf>) before being enrolled. Additionally, non-matriculated students must first complete that application process through the Admissions office. Additional guidelines, requirements, and forms can be found on the Registrar's website (<https://registrar.buffalostate.edu/auditing-courses/>). Exception: Auditing is not permitted in any study-abroad program.

Refer to DOPS Policy I:09:00 (<http://bscintra.buffalostate.edu/dops/policysect1/010900.pdf>).

Refer to DOPS Policy I:09:01 (<http://bscintra.buffalostate.edu/dops/policysect1/010901.pdf>).

## Basic Writing Requirement

The college requires all matriculated undergraduate students to demonstrate college-level skills in composition.

### Basic Writing Requirement for Freshmen

Entering freshmen will be placed in the appropriate writing-level course through the College Writing Program's placement policy (<https://writing.buffalostate.edu/student-placement/>). Students are placed at one of the three levels:

Code	Title	Credit Hours
CWP 099	DEVELOPMENTAL COLLEGE WRITING	0
CWP 101	COLLEGE WRITING I	3
CWP 102	ARGUMENTATION AND RESEARCH	3

### Basic Writing Exemption

The writing program director will forward any basic writing exemptions to the registrar.

CWP 099 is a noncredit course and may not be used to meet any degree requirements. CWP 099, CWP 101, and CWP 102 will be graded on an A-through-E basis. A through D are officially passing grades; however, courses with a prerequisite of CWP 101 or CWP 102 require a C or higher in the class. This means that a student cannot enroll in CWP 102 until he or she has earned at least a C in CWP 101 (grades of C- or

below do not meet the requirement) Course challenges will not be permitted.

Students who are considering taking a composition course at another institution that they expect will fulfill the Buffalo State basic writing requirement must seek prior permission from the College Writing Program director. The basic writing requirement is usually completed by the end of the sophomore year.

### Basic Writing Requirement for Transfer Students

If two composition courses equivalent to CWP 101 and CWP 102 are transferred, the basic writing requirement is satisfied. If one composition course equivalent to CWP 101 is transferred, the student must complete CWP 102. If no composition courses are transferred, the student must confer with an academic adviser and follow the requirement stated for freshmen (above). Transfer students must complete the basic writing requirement within their first 45 credit hours at Buffalo State College.

### Basic Writing Requirement for International Students

International students registering at Buffalo State are required to take the placement examination administered by the College Writing Program if they do not have SAT/ACT scores. They must register for the appropriate College Writing Program course(s) designated for nonnative English speakers. International students must complete the Basic Writing requirement before declaring a major. Information on these requirements and ESL instruction is available through the International Student Affairs Office, Campbell Student Union 400. Individual and group supplemental instruction in English as a Second Language is available through the Academic Skills Center, South Wing.

## Buffalo State Student Email

Students are required to check their Buffalo State Gmail accounts regularly, especially during registration. Students on a waitlist should check their Buffalo State Gmail accounts at least daily. Email notifications are sent when a seat becomes available. All correspondence to faculty members or college staff should be sent from your Buffalo State student Gmail account.

Refer to the Student Email Policy (<https://deanofstudents.buffalostate.edu/e-mail-policy/>) and the setup and reset student email information on the Information Technology website (<https://buffalostate.teamdynamix.com/TDClient/2003/Portal/KB/ArticleDet/?ID=28156>).

## Change of Grade

In case of a clerical error or other extenuating circumstance resulting in an incorrect grade, a request for a grade change must be submitted according to the following policies and procedures. This policy applies to both undergraduate and graduate students. This policy does not apply to incomplete (I), in-process (IP), grade delayed (N), grade not submitted (X), or withdrawn (W) grades. Appropriate reasons for grade changes may include but are not limited to the following:

1. Demonstrable arithmetic, editing, or factual error in calculating the grade.
2. Omission of assignments or parts of assignments in calculating the grade.
3. A grade demonstrably based on impermissible factors unrelated to student performance, such as discrimination, bias, retaliation, or retribution.

Inappropriate reasons for grade changes may include but are not limited to the following:

1. Saving a student from some academic penalty such as dismissal, probation, warning, or academic integrity problem.
2. Enabling a student to graduate.
3. Enabling a student to maintain academic eligibility for financial aid.
4. Enabling a student to graduate with academic honors or meet some other established minima.
5. Personal issues unrelated to academics.
6. Enabling a student to maintain academic eligibility for athletics or any other co-curricular activity.
7. Managing enrollment levels in order to preserve programs or revenue, or to increase retention rates.

Once a student has completed a bachelor's degree, a final average for that degree is computed. Courses from that degree may not be repeated and that final average is not affected by any subsequent coursework at Buffalo State. No changes will be permitted after a student's degree is conferred except to correct a documented college error.

The steps and time frames for each step of the student grade change process are provided in detail in the DOPS Policy 1:16:07 (<http://bscintra.buffalostate.edu/dops/policysect1/011607.pdf>).

## Changing a Major

Incoming first-year students who want to change their major before the start of their first semester may initiate the major change process with the Academic Success Office (<https://academiccommons.buffalostate.edu>). First-year students who want to change their major after the start of their first semester may initiate the major-change process by contacting the department office of the new major to gain the approval of the department chair. Continuing students who want to change their major may initiate the major change process by contacting the department office of the new major to gain the approval of the department chair.

If the department chair of the new department approves the change, an Undergraduate Change or Commit Form (<https://registrar.buffalostate.edu/sites/registrar.buffalostate.edu/files/uploads/Documents/forms/MajorChangeForm.pdf>) for Major, Certificate, Minor, Second Major, Dual Degree will be forwarded to the Registrar's Office for recording. Change requests should be made at least four weeks before registration for the next semester to allow students to register for courses in the new major. Departments may refuse a student's request

for acceptance to a major based on published requirements and prerequisites.

A student on probation will not be permitted to transfer to a new major without the approval of the associate dean of the new major.

Refer to DOPS Policy 1:06:02 (<http://bscintra.buffalostate.edu/dops/policysect1/010602.pdf>).

## Commencement Ceremony

[commencement.buffalostate.edu/helpful-contacts](https://commencement.buffalostate.edu/helpful-contacts) (<https://commencement.buffalostate.edu/helpful-contacts/>)

### Commencement Ceremony (Bachelor's)

The commencement ceremony is held each May at the end of the spring semester to honor the current Buffalo State graduating class. Seniors should file a degree application through Self Service Banner in the anticipated term of degree completion. The Registrar posts deadlines and procedures (<https://registrar.buffalostate.edu/degreeapplication/>).

The Academic Affairs Office sends commencement ceremony information to eligible participants at their permanent addresses in late March. It is possible that seniors who submit their degree applications after the posted deadlines may not receive the mailing or have their names listed in the program. They will be able to participate in the ceremony. The commencement website (<https://commencement.buffalostate.edu>) provides ceremony details, ticketing procedures, cap and gown information, a section for families, and related events.

The commencement ceremony celebrates the recent graduates and spring degree candidates for the current academic year. A student becomes a graduate when the Registrar completes a successful degree audit and awards the degree. Diplomas are not distributed at the commencement ceremony. Diplomas are mailed to permanent addresses up to six weeks following your final term of study. Students should be sure their local and permanent addresses are up to date to avoid delay in receiving commencement information or their diplomas. The change of address form is provided on the Registrar's website (<https://registrar.buffalostate.edu/forms-and-services/>).

Refer to DOPS Policy I:21:00 (<http://bscintra.buffalostate.edu/dops/policysect1/012100.pdf>).

See Graduation Requirements, Procedures (Bachelor's) (p. 48).

See Honors, Dean's Honors (p. 48).

## Course Load

The average course load for matriculated undergraduates is 15–16 credit hours a semester. Matriculated students who desire to register for more than 19 credit hours must secure approval from the appropriate academic adviser. Students in majors should consult with their faculty advisers and any undeclared students not affiliated with the Educational Opportunity Program (EOP) or the Muriel A. Howard Honors Program should consult with the Academic Advising Center (<https://academiccommons.buffalostate.edu/advising/>) in Butler Library 149. Other undeclared students should consult with their EOP or honors program advisers. Students on

academic probation or academic warning (below a 2.0 cumulative grade point average) can enroll in a maximum of 15 credit hours. All students should consult with their academic advisers for proper guidance and review for overload. Probationary students seeking an override to the 15-credit limit must make the request with their dean's office.

To graduate in four years (eight semesters), at least 15 credits must be earned each semester to earn the minimum 120 credits required for a bachelor's degree. Some majors require more than 120 credits. Seven credit hours is the maximum course load in January term for students in good standing.

Refer to DOPS Policy 1:18:00 (<http://bscintra.buffalostate.edu/dops/policysect1/011800.pdf>).

## Cumulative GPA

A student's cumulative grade point average (GPA) is computed by dividing the total number of quality points by the total number of credit hours attempted in all semesters of attendance at Buffalo State. As with the semester GPA, only grades carrying quality points are included. Courses taken at other institutions are not included, with the exception of accepted cross-registration credits, which are counted toward GPA. Refer to SUNY Cross Registration Deadlines (<https://registrar.buffalostate.edu/suny-cross-registration-deadlines/>).

## Declaring an Academic Major

Undergraduate students must declare a major before completing credits that will result in achieving "junior class level" standing (60 hours). It is recommended that all students declare a major upon completing 30 credit hours. Before declaring a major, students should seek the advice of the department chair or the associate dean of the academic school responsible for the major. The Undergraduate Change or Commit Form (<https://registrar.buffalostate.edu/sites/registrar.buffalostate.edu/files/uploads/Documents/forms/MajorChangeForm.pdf>) for Major, Certificate, Minor, Second Major, Dual Degree is available from the chair, the associate dean, and on the Registrar's website. Following consultation with the department chair or associate dean, the student must complete the form and file it with the Registrar's Office.

Some academic programs have special requirements students must meet before being admitted as a major (e.g., fine arts candidates must submit a portfolio of representative work). The department chair or program coordinator can provide information on specific requirements for an intended major.

Refer to DOPS Policy I:06:00 (<http://bscintra.buffalostate.edu/dops/policysect1/010600.pdf>).

## Degree Audit System

Student academic progress toward meeting graduation requirements is recorded in the Degree Works online audit system. Students should obtain an up-to-date copy of their audit sheet prior to an academic advisement meeting. Audit sheets can be obtained on the Registrar's website (<http://registrar.buffalostate.edu/degree-works/>). Students should inform their academic advisers of any necessary corrections

as soon as possible or consult advisers with any audit sheet questions.

Students should review Degree Works regularly to ensure they are enrolled in courses that will fulfill degree requirements. Only courses that fulfill degree requirements are eligible for federal and/or state financial aid, including loans.

Refer to DOPS Policy I:11:00 (<http://bscintra.buffalostate.edu/dops/policysect1/011100.pdf>).

## Dual Baccalaureate Degrees

The awarding of two degrees at the baccalaureate level may occur when the following requirements are met. Coursework in fulfillment of requirements for two baccalaureate degrees (B.S. or B.A. or both) may be undertaken simultaneously or concurrently and requires significant additional coursework of at least 30 credit hours (usually one additional year) in distinctly different fields with at least 15 distinct upper-division credits (i.e., not overlap with primary major requirements or overlap with the requirements of a minor or concentrations). The exception to this requirement is the bachelor of fine arts in which two degrees may be awarded upon fulfilling the requirements of each degree.

Students must earn a minimum of 150 credit hours to qualify for two baccalaureate degrees. The maximum number of concurrently awarded degrees at the baccalaureate level is two.

Students interested in pursuing a dual degree should contact the departments involved; request a review of their progress and academic advice concerning the second degree; and complete the Undergraduate Change or Commit Form (<https://registrar.buffalostate.edu/sites/registrar.buffalostate.edu/files/uploads/Documents/forms/MajorChangeForm.pdf>) for Major, Certificate, Minor, Second Major, Dual Degree and file with the Registrar's Office. Students pursuing dual baccalaureate degrees should seek academic advisement from the appropriate faculty advisers or department chairs in both majors to ensure that all dual degree requirements will be fulfilled.

Refer to DOPS Policy I:01:03 (<http://bscintra.buffalostate.edu/dops/policysect1/010103.pdf>).

## Grading

The college uses letter grades to indicate the status of a student at the completion of a course. All grades are awarded at the sole discretion of the faculty member responsible for the course. A grade must be submitted for every student on the course roster at the end of the semester. Students will be apprised of evaluation policies in each class at the beginning of every semester. This information also will include notification, where appropriate, that the plus/minus grading system will be used as determined by the instructor. Instructors will inform students of their standing in each course by the end of the ninth week of the semester, or two-thirds of a Summer Session or January Term. Mid-term grades are available in Degree Works and Banner when submitted by the instructor. Questions regarding grading policies or an

individual grade received in a particular course should be addressed to the instructor or to the department chair.

## Grades Awarded by the College

Letter Grade	Description
A	Superior.
A-	
B+	
B	Above Average for undergraduate coursework. Average for graduate coursework (B or 3.0 is required minimum cumulative GPA for graduate coursework).
*B-	
*C+	
*C	Average.
**C-	
**D+	
**D	Below average.
**E	Failure or unofficial withdrawal from a course.
**EV	Failure, never attended.
S	Satisfactory.
SD	Satisfactory with Distinction.
U	Unsatisfactory.
P	Pass, may not be given for graduate coursework.
F	Fail, may not be given for graduate coursework.
CR	Awarded for Course Challenge and Experiential Learning.

\*Courses with a grade of B-, C+, or C are below required average for graduate coursework but may be used to meet graduate program degree requirements.

\*\*Courses with a grade of C or below cannot be used to meet graduate program degree requirements.

The following letters are used to indicate status:

Letter Grade	Description
I	Incomplete.
IP	In Progress.
N	Grade delayed.
NR	Grade not required.
X	Grade not submitted.
W	Withdrawn.

## Explanation of Grades

S (satisfactory) and U (unsatisfactory) grades are reserved for graduate theses, student teaching or other field experiences that are not readily evaluated by the normal letter grades and basic skills courses.

SD (satisfactory with distinction) is reserved for graduate theses. S, SD, and U grades may be given only for courses so designated.

P (pass) and F (fail) grades are given for undergraduate courses taken on a pass-fail basis. They may be submitted only under proper authorization. Pass and fail grades may not be used for graduate coursework.

W (withdrawal) grades may be submitted only when a student has formally withdrawn from a course.

I (incomplete) grades may be submitted by an instructor only when circumstances leading to a student's failure to complete course requirements are known to be beyond the student's control (e.g., serious illness or unavailability of material) or for planned extensions of undergraduate project and studies. Students must request an incomplete grade directly from the instructor. The student must complete course requirements and the instructor must submit a grade change by the 10th week of the following spring or fall semester or the grade automatically converts to an E (failure). In the event that the instructor who granted the I grade is unable to evaluate whether the student has fulfilled the course requirements during the stipulated time period, the chair or program coordinator takes responsibility for evaluating the student's work and changing the grade.

IP (in progress) grade of IP is reserved for graduate students who have not completed their thesis or project requirements. When work is completed, the instructor submits a grade change, replacing the IP grade with a final grade. If an instructor does not submit a final grade by the end of the second additional semester, the IP grade will automatically be recorded as an E or U unless an incomplete extension (722) is filed. A grade of N (grade delayed) may not be submitted for a thesis or project.

N (grade delayed) grades may be given when research work or an internship carries over from one semester to another and when it is necessary to delay grading to a subsequent semester. N grades may be submitted only with the permission of the department chair or program coordinator. A grade of N may not be used for a graduate thesis or project course.

NR (grade not required) grade is reserved for and must be submitted for any graduate level 721 Thesis/Project Continuation or 722 Thesis/Project Extending Course.

#### Pass-Fail Option

The pass-fail option permits any matriculated student to take a course for credit without receiving a letter grade of A, B, C, D, E, or EV. Students may enroll in one course each semester or summer on a pass-fail basis. All sessions combined make up the summer semester. A pass (P) grade provides credit but no quality points and is not counted in total hours used to determine cumulative average. A fail (F) grade is treated as a failure although the hours are not used in computing the cumulative average.

A pass-fail credit may be applied toward a degree. Courses required for the student's major and minor cannot be taken on a pass-fail basis. Courses taken as part of early childhood and childhood education program concentrations and distributions may not be taken pass-fail.

Any course, except English composition 100-level courses and those required for completion of a major or a minor, may be taken on a pass-fail basis. Students must declare their intention to do so by the end of the 10th week of classes in any semester or after two-thirds of a Summer Session or January Term.

After receiving the approval signature of the student's adviser, a declaration of intent must be filed with the Registrar's Office, Moot Hall, by the published deadline. An instructor may choose to substitute a letter grade for the pass if written consent from the student is received and the form is submitted prior to the end of the semester. Once an application for pass-fail has been submitted, the pass-fail option for that semester has been exhausted. Subsequent filing of a substitution form to receive a letter grade does not allow submission of another pass-fail application for that semester.

Students may not use pass-fail to repeat a course for which a grade of C- or below was earned.

Note: Students are cautioned that the amount of pass-fail work permitted may jeopardize their chances for admission to graduate or professional school or for career placement.

Refer to DOPS Policy I:16:03 (<http://bscintra.buffalostate.edu/dops/policysect1/011603.pdf>).

## Graduate Courses

### Undergraduates Enrolling in Graduate Courses

Undergraduate students who have completed more than 106 credits by the end of the previous semester at Buffalo State may register for graduate-level courses if they have maintained a minimum 2.5 cumulative GPA. A maximum of 6 graduate credit hours may be taken as a senior unless enrolled in a combined undergraduate/graduate program. The combined enrollment of undergraduate and graduate courses should not exceed 15 hours per semester. Courses taken in this manner are related to a graduate program of study and will not apply toward an undergraduate degree with the exception of a combined undergraduate/graduate program where the student must seek advisement prior to registration. These courses may be applied toward an advanced degree if they are acceptable to the department. The six-year time limitation on the completion of the master's degree program applies to these as well as to other credits.

An undergraduate request to enroll in a graduate course must be made by contacting the academic department offering the course. Permission must be granted by the instructor and department chair.

## Graduate Programs of Study

The Graduate School offers 44 master's degree programs and 14 advanced certificate programs in a wide range of areas, with over twenty areas of specialization in the master's of science in education. For more information see post baccalaureate and graduate program options. Nearly 1,000 students enrolled in graduate study at Buffalo State find that a graduate degree allows them entry into new or related fields or eligibility for promotion in their current fields.

Specialized graduate degree programs include art conservation, creative studies, learning design and educational technology, teaching bilingual exceptional individuals, literacy specialist and a certificate of advanced study in art conservation. While teacher education remains a tradition at Buffalo State, other graduate programs in adult education, applied economics, and higher education and student affairs administration are unique within SUNY.



Applied programs in public relations, Teaching English to Speakers of Other Languages (TESOL), urban education, music education, great lakes ecosystem science, public and nonprofit management (MPA), museum studies, professional applied and computational mathematics, science education, and students with disabilities 7-12 generalist and students with disabilities 7-12 subject extensions offer exceptional opportunities for professional advancement.

Other distinctive graduate degree programs include criminal justice, industrial technology, applied economics, biology, English, history, and the data science and analytics option within multidisciplinary studies.

### Applying for Graduate Study

Students holding bachelor's degrees from an accredited college or university are eligible to apply for graduate study at Buffalo State. International applicants must submit transcript evaluations and the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) scores. Admissions procedures and deadline dates are available on the Graduate School (<http://graduateschool.buffalostate.edu/>) website or contact the Graduate School Office in Cleveland Hall 204 or email [gradoffc@buffalostate.edu](mailto:gradoffc@buffalostate.edu) for more information.

In accordance with federal regulations, all students are required to submit a final transcript with a degree posted to the Graduate School by the start of their graduate work for financial aid eligibility.

## Graduation Requirements

### Graduation Requirements for Bachelor's

The steps undergraduates take to apply for graduation are provided on the Registrar's website (<https://registrar.buffalostate.edu/degreeapplication/>). All students expecting to qualify for a bachelor's degree must fulfill the following requirements:

1. Complete the online Application for Undergraduate Degree through Self Service Banner by the specified date. Failure to make application before the date may eliminate the student from the commencement program and delay the granting of the degree.
2. Students must meet all curricular requirements. They must have completed the prescribed curriculum for their major.
  - a. Students must maintain a minimum cumulative 2.0 GPA for all coursework taken at Buffalo State. The minimum cumulative GPA for the courses taken in the major field must also be 2.0. The minimum cumulative GPA for courses taken in a minor is 2.0.
  - b. Students must complete the 33#39 credit hours of Intellectual Foundations 2014 requirements.
  - c. All candidates must have completed a minimum of 45 credit hours of upper-division coursework, courses generally considered advanced and numbered 300–499.
  - d. A minimum of 30 credit hours must be completed at Buffalo State.
  - e. A minimum of 120 academic credit hours must be completed.
  - f. Students must complete at least 6 credit hours in their major at Buffalo State.

3. Education majors leading to certification for teaching in the early childhood and upper-elementary grades must fulfill a drug-education requirement and should file a certification application with the Teacher Certification Office, Chase Hall 222.
4. In addition to academic requirements, students enrolled in teacher education programs leading to initial certification or initial/professional certification are required to complete all seminars specifically required by New York State for program completion and graduation. Required seminars include: School Violence Prevention and Intervention (SAVE); Identification and Reporting of Child Abuse and Maltreatment; Alcohol and Other Drug Avoidance; Fire and Arson Safety; HIV and the Classroom; and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training). These seminar requirements are subject to change.
5. No students will be cleared for graduation until all grades of I, N, or X have been replaced with an appropriate letter grade.

Refer to DOPS Policy I:04:00 (<http://bscintra.buffalostate.edu/dops/policysect1/010400.pdf>).

Refer to DOPS Policy I:21:00 (<http://bscintra.buffalostate.edu/dops/policysect1/012100.pdf>).

## Honors Convocation

Academic Affairs Office  
Cleveland Hall 519  
(716) 878-5550

Honors Convocation (<https://academicaffairs.buffalostate.edu/honors-convocation/>)

This recognition of academic excellence is held each spring semester. Students with a minimum cumulative GPA of 3.5 after earning 45 credit hours are invited to attend the Honors Convocation with family members and a faculty guest. Transfer students are eligible after completing 30 credit hours at Buffalo State.

## Honors (Baccalaureate), Dean's Honors

### Dean's Honors List

The Dean's Honors List is calculated each fall and spring semester for matriculated undergraduate students based on number of credit hours and term GPA. Dean's honors is not calculated for Summer Session or January Term (J-Term).

Full-time undergraduate students must meet all of the following criteria to be eligible for the Dean's Honor List in a given semester:

1. Earn a minimum term 3.5 GPA.
2. Successfully complete a minimum of 12 credit hours of letter grade work (i.e., A, B, C, or D). Grades of S and P are not considered. Students with incomplete grades or grades of I, N, X, or U in a course for that semester are ineligible for the Dean's Honor List.
3. All courses must be taken at Buffalo State.

## Part-Time Dean's Honors List

Part-time, matriculated undergraduate students (those carrying less than a 12-credit-hour course load per semester) become eligible for Part-Time Dean's Honors List following successful completion of 12 credit hours of letter grade work (A–E) at Buffalo State. The Dean's Honors List designation for part-time undergraduate students is determined once a year at the end of the spring semester for courses taken during that semester and the preceding fall semester.

Eligibility also requires the following:

1. A minimum 3.5 GPA for all coursework taken in that academic year.
2. No grades of I, N, X, or U in a course during that year.
3. Successful completion of at least 12 hours of letter grade work per academic year.

## Baccalaureate Academic Honors

Members of the graduating class who achieve honors as graduates or degree candidates according to the criteria set by the Registrar's Office and stated in the Directory of Policy Statements (DOPS) may be recognized at the commencement ceremony.

### Baccalaureate Academic Honors

*An honors designation* is awarded to bachelor's graduates who achieve a minimum cumulative 3.5 GPA for all work completed at Buffalo State. Graduates with a cumulative GPA of 3.8 to 4.0 are designated summa cum laude; 3.65 to 3.79 are magna cum laude; and 3.5 to 3.64 are cum laude. A graduate must have completed a minimum of 60 credit hours at Buffalo State with a requisite number of final credits in residence to be considered for the honors designation. The honors designation is noted on the diploma and in the graduate's transcripts once the Registrar has completed the degree audit and awarded the degree.

*An honors citation* may be noted for spring degree candidates eligible to participate in the commencement ceremony. Spring degree candidates with a minimum 3.5 cumulative GPA who have completed or have in progress 60 credit hours at Buffalo State during the spring semester may be eligible. A final honors designation will be determined when the Registrar completes the degree audit and awards the degree. Students who have incomplete grades or grades of I, N, X, or U may not be considered for honors designation upon degree conferral nor honors citation at commencement.

### Gold Honors Cord at Commencement

Members of the bachelor's graduating class who are honors designation graduates or honors citation degree candidates based on their current GPA in their last completed term are invited to wear a gold honors cord at commencement to signify their academic achievement. They are also recognized in the commencement program. Wearing the gold honors cord is not required. There is no honors designation or citation at the graduate level.

Refer to DOPS 1:16:06 (<http://bscintra.buffalostate.edu/dops/policysect1/011606.pdf>).

# Honors in Majors

Many departments have programs leading to baccalaureate degrees with honors. Generally, these departments require special criteria for admission to the departmental major and 6 credit hours of predetermined honors work to earn the distinction. Students interested in departmental honors programs should contact the department of their choice.

The following majors can be pursued as bachelor's degrees with honors:

- Anthropology, B.S.
- Biology, B.S.
- Earth sciences, BS.
- Economics, B.A.
- Geology, B.A.
- History, B.A.
- Philosophy, B.A.
- Psychology, B.A.
- Psychology, B.S.
- Social Studies Education (7–12), B.S.

Completing a bachelor's degree with an honors major does not equate to graduating with baccalaureate honors or the gold honors cord at the commencement ceremony, which require meeting minimum cumulative GPA and Buffalo State credit hours.

Refer to Honors (Baccalaureate), Dean's Honors (p. 48).

# Immunization Requirement

## Immunization Compliance

All students must be in compliance with New York State law regarding immunizations to be able to register for classes. The health center provides measles, mumps, and rubella immunizations at no charge for students who need vaccinations. New York State Public Law and Buffalo State College also require all students enrolled to complete and return the Meningitis Information Response Form. The meningitis form and the New Student Health Form are available at <https://weigel.buffalostate.edu/forms> (<https://weigel.buffalostate.edu/forms/>) and are to be returned to the health center.

# Leave of Absence, Withdrawal from College

The Undergraduate Application for Leave of Absence/Withdrawal from College form ([https://buffalostate.co1.qualtrics.com/jfe/form/SV\\_ahpcGY0Gyi5V8JD/](https://buffalostate.co1.qualtrics.com/jfe/form/SV_ahpcGY0Gyi5V8JD/)) is available online on the Forms and Services (<https://registrar.buffalostate.edu/forms-and-services/>) section of the Registrar's website.

Students in a major should begin the application process by conferring with their department chair. Undeclared students should meet with the Academic Advisement Office coordinator. Tuition refunds, if applicable, will be made on a prorated basis as outlined for that semester. Financial aid recipients who withdraw or take a leave of absence may owe

a refund of aid they received for the semester. For additional information about financial aid, refer to the financial aid section of this catalog or <https://financialaid.buffalostate.edu>, Moot Hall 210.

### Leave of Absence

Matriculated undergraduate and graduate students who wish to leave the college for academic, financial, medical, military, or personal reasons may be granted leaves of absence for the fall or spring semesters only. A leave of absence (LOA) is a temporary interruption in a student's program of study. A LOA cannot exceed 180 days in any 12-month period and may have a serious impact on a student's financial aid. Any student who received financial aid and is considering a LOA should consult with the Financial Aid Office to determine how their aid will be affected (e.g., grace period, repayment, failure to return as stipulated, etc.) prior to LOA approval. In accordance with federal regulations, 34 CFR 668.22 (d), the following criteria outlines the requirements to process an approved LOA:

- The student must submit a completed Leave of Absence form for approval. The form must state the reason(s) for the LOA request. A LOA cannot be granted for academic reasons (i.e. to keep a student from failing).
  - When a student submits a leave of absence before the start of a semester, the leave will start on the first day of the next semester (fall or spring).
  - A student who wishes to take a leave of absence during a semester already in progress must submit the paperwork no later than the last day to drop without financial penalty. No leaves of absence will be granted after that date.
  - Retroactive leave of absence requests will not be approved.
  - Students can automatically remove their leave-of-absence status by registering for the semester in which they had originally planned to take a leave or for the following semester after the approved leave of absence.
- There must be reasonable expectation that the student will return from LOA. A student granted a LOA is not to be considered withdrawn and no return of Title IV calculation is required.
  - Student borrowers are given a six-month grace period on most types of federal loans starting at the date enrollment ceases. During this time, lenders will treat the borrower's loans as if the borrower were still enrolled in school full time.
  - Once a grace period is used on a specific loan, it will not be given again.
  - At the end of this six-month grace period, the student will be required to enter repayment on their federal educational loans until they return to school. However, deferment or forbearance options may be available if the student makes a request to their lender.
- A student returning from a LOA must resume study at the same point in the academic program that they began the LOA.
- Students who change their majors when they return will be required to meet the curriculum of the new program in place at the time of their return.
- If a student does not register for classes within the 180 day-requirement, the student is considered to have ceased

attendance from the institution and a Title IV return of funds calculation is required if the student received federal aid.

- When a student returns from a LOA, the institution may not assess the student any additional institutional charges relative to reinstatement.
  - Students on an approved leave of absence who fail to return (for any reason) will be inactivated at the end of the following semester (fall or spring) and must apply for readmission to the college when they are interested in resuming their progress toward a degree.
  - Students who are not enrolled for three consecutive semesters will be readmitted using the catalog year of their readmittance.
- Students who do not register for courses for the semester after their leave expires will be deactivated as students and must apply for readmission to the college when they are interested in resuming their progress toward a degree.
- Upon return from a leave of absence, students will be allowed to complete the program requirements in place at the time they took the leave of absence. Students should seek financial aid eligibility consultation and academic advisement before registering for courses for their return semester.

### Withdrawal from College

To maintain good academic standing and eligibility for readmission to the college, students finding it necessary to withdraw must do so officially. Failure to file for withdrawal will result in the recording of an E grade in each course in which the student is registered. When it is impossible to withdraw in person, it must be done in writing from the student to the dean. Students withdrawing officially with no outstanding obligations or commitments to the college are considered to be in good academic standing.

The chair must sign the Withdrawal from College form ([https://buffalostate.co1.qualtrics.com/jfe/form/SV\\_ahpcGY0Gyi5V8JD/](https://buffalostate.co1.qualtrics.com/jfe/form/SV_ahpcGY0Gyi5V8JD/)). A request to withdraw from the college must be received in the Registrar's Office, Moot Hall, no later than the Friday before the Critique and Evaluation Period.

Refer to DOPS Policy I:07:00 (<http://bscintra.buffalostate.edu/dops/policysect1/010700.pdf>).

## Micro-credentials

Micro-credentials verify, validate, and attest that specific skills and/or competencies have been achieved and are endorsed by the issuing institution, having been developed through established faculty governance processes and designed to be meaningful and high quality. SUNY Buffalo State recognizes four types of micro-credentials which can be credit or non-credit bearing and stackable.

1. Curricular Micro-credentials: Curricular micro-credentials involve minimally 1 credit hour and no more than 15 credit hours, and may combine credit-bearing courses and non-credit-bearing activities. These micro-credentials must be reviewed and approved through the regular process of curriculum approval for their level. These micro-credentials may be awarded and found on a transcript or co-curricular document.

2. Professional Pathways: Mapped to skills and competencies desired in a particular professional field, these pathways generally include academic courses and experiential learning. Often they will be interdisciplinary. Specific academic assignments will be identified in each course that map to the skills and competencies identified for the particular professional field.

3. Skill and Competency Badges: Offered to current students and complementing the curriculum, these are smaller badges that help earners obtain and demonstrate skills. These badges can be stand-alone or built into a course.

4. Continuing Education Badges: Used for lifelong learning, professional training in collaboration with employers, or a smaller version of a larger graduate or certificate program.

Anyone who is eligible to take the required credit or non-credit courses/programs or engage in the co-curricular activities may earn a micro-credential. At the discretion of the faculty, the eligibility requirements might include a minimum GPA or other criteria for matriculated students, and/or an application process for non-matriculated students. Micro-credentials are awarded upon successful completion of the specific requirements for that credential. Micro-credentials have clear, measurable outcomes, assessments aligned to the outcomes, and evidence of mastery of the outcomes through reliable and valid assessments. Only credit bearing micro-credentials may be stacked for credit. SUNY Buffalo State micro-credentials may or may not be transferable to other campuses. Verification of successful completion of a micro-credential may result in a grade within a course or a notation of satisfactory completion.

## Notification of Rights under the Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student's education records within 45 days of the day the college receives a request for access. A student should submit to the registrar, dean, head of the academic department, or other appropriate official a written request that identifies the record(s) the student wishes to inspect. The college official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA. A student who wishes to ask the college to amend a record should write the college official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If the college decides not to amend the record as requested, the college will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to provide written consent before the college discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent. The college discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the college in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the college has contracted as its agent to provide a service instead of using college employees or officials (such as an attorney, auditor, or collection agent); a person serving on the College Council; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks; and National Student Clearinghouse officials. A school official has a legitimate educational interest if the official needs to review an education record to fulfill his or her professional responsibilities for the college. Upon request, the college also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

Buffalo State hereby designates the following categories of student information as public or directory information. Such information may be disclosed by the institution for any purpose, at its discretion.

A. Name, address, electronic mail address, telephone listing, dates of attendance, enrollment status (e.g., undergraduate or graduate, full-time or part-time), class level, and academic adviser.

B. Most recent educational agency or institution attended; major field of study; degrees, honors, and awards received.

C. Participation in officially recognized activities and sports, weight and height of members of athletic teams, date and place of birth, photographs. Currently enrolled students may withhold disclosure of any category of information under the Family Educational Rights and Privacy Act of 1974. To withhold disclosure, written notification must be received by September 15 in the Registrar's Office, Moot Hall, Buffalo State, 1300 Elmwood Avenue, Buffalo, NY 14222-1095. Nondisclosure of information will commence thereafter and be effective until September 14 of the following year. Written notification to withhold disclosure must be made each academic year. Buffalo State assumes that failure on the part of any student to specifically request the withholding of categories of directory information by the deadline date indicates individual approval for disclosure.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Buffalo State to

comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Ave., SW  
Washington, DC 20202-5901

Refer to DOPS Policy I:13:00 (<http://bscintra.buffalostate.edu/dops/policysect1/011300.pdf>).

## Registration Information

All currently registered students who will continue their studies during the next regular semester are expected to register within two weeks of their first day of registration eligibility. Procedures for registering can be found on the Registrar's Office (<https://registrar.buffalostate.edu/registration/>) website where course listings are posted in March for fall and in October for spring.

Students should check their Buffalo State e-mail accounts regularly, especially during registration. Students on a waitlist should check their Buffalo State e-mail at least daily as e-mail notifications are sent when seats become available. All correspondence to faculty members or college staff should be sent from a student's Buffalo State e-mail account.

To receive accurate information about registration eligibility and to maintain registration eligibility, students should remember the following:

- Students subject to possible academic dismissal under probation regulations should register. Students clearly subject to dismissal should not begin a new semester or summer session until the appropriate dean has determined their status.
- Academic advisement is strongly encouraged for all matriculated students.
- Students with outstanding financial obligations may not be allowed to register at any time.
- Not attending the first class meeting does not withdraw a student from a class.
- Students with 2.0 or higher GPAs who discontinue attendance without taking a leave of absence can register for classes without applying for readmission for up to two fall or spring semesters beyond the semester in which they were last registered.

## Repeating Undergraduate Courses

### Repeating Undergraduate Courses at Buffalo State

A student may repeat a given course once for which a C-, D+, D, or E, EV, F, OR U grade was earned. The course must have the same prefix, number, title, and credit hours. The repeated course must be taken at Buffalo State. Only the **higher of the two grades** and those semester hours completed will be used in determining the GPA. A student may not repeat a course a third time.

All grades remain on the permanent record. Students may not use pass-fail to repeat a course for which a C-, D+, D, E, or EV grade was earned. **Courses must be repeated in**

**the same grading mode as the first attempt.** A passing grade will not replace an F or U grade since F and U are not computed in the GPA. Courses with letter grades above C- cannot be repeated. Courses that were illegally repeated will not be used in computing the cumulative average. Practicum courses may differ. Check with the department that offered the course. Repeating courses affects financial aid. Check with the Financial Aid Office for more information regarding repeating courses and financial aid policy.

Once a student has completed a bachelor's degree, a final average for that degree is computed. Courses from that degree may not be repeated, and that final average is not affected by any subsequent coursework at Buffalo State.

### Repeating Undergraduate Courses at Other Institutions

A Buffalo State course in which a C-, D+, D, E, EV, OR F grade was earned may be repeated at another institution provided the student has received prior department approval of course equivalency and filed the appropriate off-campus study form through the Registrar's Office

A minimum grade of C is required for transfer credit to be applied as a repeated course. The transfer credit will count toward degree completion, but the transferred course grade will not be included in the overall Buffalo State GPA. Upon transfer of the repeated course, the Buffalo State course will be excluded from the GPA and will be so indicated on the transcript.

No more than 16 credits may be awarded through course repeat at another institution. Transfer credits obtained through course repeat outside of Buffalo State will count toward the maximum transfer credit allowance.

Refer to DOPS Policy I:16:08 (<http://bscintra.buffalostate.edu/dops/policysect1/011608.pdf>).

## Role of Students and Faculty in the Advisement Process

Effective academic advisement is the interaction between a qualified adviser who is knowledgeable and supportive and a serious student who is motivated and receptive. Together they evaluate and plan the student's course of study. The task of the adviser is to provide guidance and information for the student to make efficient progress in the pursuit of an academic goal. The adviser is responsible for being well informed and ready to provide aid in the selection of specific areas of study and major, minor, general education, and all-college elective courses. The adviser should also help the student interpret administrative policies, fulfill academic requirements, and comply with college regulations. The task of the student is to seek advisement, to understand, and to be responsible for decisions. The student should be familiar with the sources of information on policies, requirements, and regulations. The college bears the responsibility for establishing procedures and providing a setting conducive to good advisement.

Refer to Academic Advisement (p. 36).

## Second Major, Single Degree

A student may fulfill the requirements for two majors and receive a designation on the official transcript indicating the completion of a baccalaureate degree in one major with the fulfillment of requirements of a distinctly different second major. The second major must include at least 15 distinct upper-division credits (i.e., not overlap with primary major requirements or overlap with the requirements of a minor or concentrations). Upon conferral of the degree, the student's transcript will contain two entries: the major degree and a notation that "this student has also completed all requirements for a second major in the appropriate area."

Students opting for a second major should contact the department involved; request a review of their progress and academic advice concerning the second major; and complete the Undergraduate Change or Commit Form (<https://registrar.buffalostate.edu/sites/registrar.buffalostate.edu/files/uploads/Documents/MajorChangeFormRevised3.pdf>) for Major, Certificate, Minor, Second Major, Dual Degree, available in the Forms and Services (<https://registrar.buffalostate.edu/forms-and-services/>) section of the Registrar's website; and file with the Registrar's Office. The student's primary major adviser conducts regular advisement of the student. Only one baccalaureate degree may be awarded for a four-year, 120-credit-hour program.

When the student nears degree completion and submits a degree application through Self Service Banner, the online application form will prompt the student to identify the primary major in which the degree will be awarded and the second major that is also being completed.

Refer to DOPS Policy I:06:01 (<http://bscintra.buffalostate.edu/dops/policysect1/010601.pdf>).

## Student Complaints, Grievances, and Appeals

Buffalo State complies with New York State Education regulations requiring that campuses have procedures in place for filing complaints and seeking resolution of perceived problems.

### Academic Petition Appeals: Waiver of Academic Regulations

Students are expected to adhere to all regulations of the college. However, unusual and extenuating circumstances may warrant a modification of certain regulations.

Students should not request a waiver of any regulations without very strong evidence to justify the waiver. Requests for waivers are made by completing an Academic Appeals Petition available in the Academic Standards Office, Twin Rise 100, or on the Academic Standards website (<https://academicstandards.buffalostate.edu/petitions/>).

The Academic Standards Office makes decisions on requests for waivers that do not relate to a student's major after consulting with the Academic Appeals Committee. The Academic Standards Office decision is final. A minimum of one month is necessary to process academic appeals.

Decisions on requests for a waiver related to a student's major are made by the appropriate department chair in accordance with procedures established by the department or area faculty. Requests for application of AP and/or transfer credit should be taken directly to the Admissions Office; these requests do not require an Academic Appeals Petition.

### Student Complaints Regarding Discrimination

If the complaint involves alleged harassment or discrimination based on race, sex, ethnicity, national origin, sexual orientation, gender identity, religion, age, disability, or marital or veteran status, the student should use procedures administered through the Equity and Diversity Office (<https://equity.buffalostate.edu>). Acts of discrimination should be reported immediately to this office for confidential discussion of the alleged acts. Students have 90 days from the alleged act of discrimination or 90 days after receipt of a grade to file a complaint. A copy of the procedures may be obtained in Cleveland Hall 415.

### Student Complaints Regarding Nonacademic Issues

If the complaint involves nonacademic issues, the student should deal with procedures administered by the Dean of Students Office, Campbell Student Union 311. However, students are encouraged to seek resolution of the perceived problem directly in the unit in question before initiating processes that are more formal.

### Student Complaints Regarding Academic Issues

The procedures outlined in the next section pertain to complaints about academic issues other than those dealing with waiver of collegewide academic regulations or graduation issues, which are addressed by petitions to the Academic Appeals Committee. The college seeks to resolve student grievances as promptly and informally as possible. No adverse action will be taken against any student initiating a complaint.

Students who feel aggrieved regarding any aspect of the academic program have a right to request a resolution by bringing the matter to the attention of the appropriate college personnel. The academic appeals process regarding a waiver of academic regulations is outlined under Waiver of Academic Regulations section. If the perceived problem pertains to a grade or the conduct of a particular course, students should follow the Student Academic Grievance Procedures, below.

### Student Academic Grievance Procedures

The procedures that follow pertain to alleged violations or misapplication of college and/or course policies. They are also directed at a student grievance alleging that the student has been treated unfairly, in violation of established academic policy or practice. These procedures reflect the college's commitment to a fair and prompt resolution of student academic grievances. These procedures begin with an informal process but include a formal process that centers on hearings and recommended resolution of the grievance in a way that maximizes the opportunity for a full and impartial solution. Request to waive or otherwise alter college academic policies shall continue to be the province of the Academic Appeals Committee (see Waiver of Academic Regulations).

The procedures below do not deal with grievances that are based on issues of sexual harassment or discrimination. Such

grievances are handled through the Equity and Diversity Office. Similarly, complaints that deal with other nonacademic issues are administered by the Dean of Students Office (see previous section).

For academic grievances, students are advised to retain all documentation from the course, including (but not limited to) the syllabus, tests, quizzes, papers, and any graded evaluations. These materials are required to substantiate any grievance.

1. Jurisdiction

A grievance shall include, but not be restricted to, a complaint by a student

- a. that college regulations and/or policies have been violated or misapplied to him or her, or
- b. that he or she has been treated unfairly, defined in terms of established academic policy or practice governing or affecting students at the college.

2. Time Limit

- a. At the informal level before the fifth week of the following semester, or
- b. at the formal level before the 10th week of the following semester.

3. Grievance Resolution Process

The process includes the possibility of hearings at two levels: the department and the faculty.

- a. At the department level, a student with a complaint should attempt to resolve the complaint informally with the faculty or staff member involved. The assistance of the chair may be sought to resolve the dispute to the satisfaction of both parties. A student must initiate the process no later than five weeks into the following semester. The student who is not able to achieve resolution with the instructor may initiate a formal grievance or grade appeal process no later than 10 weeks into the following semester by preparing a written statement, which includes the following:
  - i. a statement of the case in detail,
  - ii. all information about the conference with the instructor,
  - iii. a statement of the reasons the student believes he or she is aggrieved or, in the case of a grade, why it should be reconsidered,
  - iv. all relevant supporting materials, which should be identified and listed in an index.

The student shall submit complete copies of the written statement and attachments to the chair of the department and the faculty member identified in the grievance.

The chair shall carefully review the statement, confer with the student and instructor, and attempt to reach a resolution of the dispute. The chair may ask members of the department to serve as a committee to review the materials and assist him or her in reaching a decision.

The chair's response must be made within 10 academic days of the date of the student's request.

In conformance with state regulations, the department shall maintain adequate documentation about each formal complaint and its disposition for at least six years after final disposition of the complaint. If the department chair is the party against whom the grievance is brought, the

student should initiate a review at the dean's level, which follows:

1. If the matter is not resolved to the student's satisfaction at the departmental level, he or she may request a hearing at the faculty level by writing to the dean of the faculty and forwarding the documentation to that office. The request must be made within 10 academic days of the receipt of the recommendation of the department chair. The dean or designee shall convene a three-person committee drawn from a panel of available faculty within 10 academic days. Such committee shall include one faculty member from the department in which the faculty member resides. Furthermore, after the committee is constituted, the faculty member and the student have the right to review the committee membership and request alternative members in the event it is believed a member of the committee is not neutral. The committee shall meet and review the materials presented and solicit a response from the instructor to each count of the student's case. In the case of a grade appeal, the committee will familiarize itself with the standards and objectives of the course and evaluative material presented. Concerns shall be limited to consideration of the fairness of the application of the standards and objectives, and whether the standards and objectives were made known to the student in a reasonable manner. The difficulty of the standards shall not be an issue.

The burden of proof shall be on the student, who may be asked to appear before the committee.

In the case of a grade appeal, if the majority of the committee feels no case can be made, the original grade will remain. If it finds that the standards and objectives were not reasonably known to the student or were unfairly applied, it may recommend a different grade and give its reasons for so recommending. The committee shall report its findings in writing to the student, the instructor, and the dean.

If the panel recommends a different grade, the instructor shall have 10 academic days from receipt of the panel's report to inform the dean of the faculty of the intent to change the grade. If necessary, the dean may direct that the grade be changed. A change of grade shall not be interpreted as an admission of unfairness in grading.

In the case of a grievance, if the majority of the committee members adjudge the grievance to be without foundation, written notification of their findings will be forwarded to the student, the instructor, and the dean of the faculty. If, in the judgment of the committee, there is a basis for the grievance, a written report will be forwarded to the dean of the faculty with specific recommendations for redress. Copies shall be forwarded to the student and the instructor.

The dean of the faculty will notify all parties of his or her final decision regarding the grievance within 10 academic days of receipt of the committee's findings and recommendations.

In conformance with state regulations, the dean's office shall maintain adequate documentation about each formal complaint and its disposition for at least six years after the final disposition of the complaint.

# Students Unable to Attend Classes on Certain Days Because of Religious Beliefs

Equity and Campus Diversity Office  
Cleveland Hall 415  
(716) 878-6210

[equity.buffalostate.edu](https://equity.buffalostate.edu) (<https://equity.buffalostate.edu>)

1. No person shall be expelled from or be refused admission as a student to an institution of higher education because he or she is unable, due to religious beliefs, to register for or attend classes, or to participate in any examination, study, or work requirements, on a particular day or days.
2. Any student in an institution of higher education who is unable, because of his or her religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.
3. It shall be the responsibility of the faculty and the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his or her religious beliefs, an equivalent opportunity to register for classes or make up any examination, study, or work requirements that he or she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.
4. If registration, classes, examinations, study, or work requirements are held on Friday after 4:00 p.m. or on Saturday, similar or makeup classes, examinations, study, or work requirements shall be made available on other days, where it is possible and practical to do so. No special fees shall be charged to the student for these classes, examinations, study, or work requirements held on other days.
5. In effectuating the provisions of the Education Law, it is expected that faculty and administrative officials will exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student for availing himself or herself of the provisions of this section.
6. Any student who is aggrieved by the alleged failure of any faculty or administrative official to comply in good faith with the provisions of this section shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his or her rights under this section.
7. The term "religious beliefs" shall mean beliefs associated with any corporation organized and operated exclusively for religious purposes, which is not disqualified for tax exemption under Section 501 of the United States Code.
8. At Buffalo State, we sharpen the mandate of the state and endorse the policy that prohibits administering evaluative examinations on Rosh Hashanah, Yom Kippur, and Good Friday.

## 1. Committees

Committee members shall be drawn from a list of faculty nominated by departments. In naming the committee to hear a grievance, the dean shall take care to ensure that no member has an interest in the case being heard.

## 2. Confidentiality

Once the grievance committee has been convened to hear a complaint, principals and committee members shall have the obligation to maintain the confidentiality of the proceedings and of all materials presented.

## 3. Review

This procedure must be reviewed after two years. The review process should identify any irregularities in grade changes. To facilitate this review, a copy of all documentation/findings at the formal level shall be retained in the department office.

## Student Complaints Regarding Distance Learning

### New York State Residents

SUNY students should attempt to resolve complaints with the campus itself. However, any New York State resident who is unable to resolve the problems should contact:

State University of New York System Administration  
Provost's Office  
State University Plaza  
Albany, NY 12246

### Non-New York State Residents

Students should try to resolve the complaint with campus personnel first. If the problem does not get resolved, students can work with an agency in their home state to have their complaint addressed. The U.S. Department of Education regulations require each state to have a process to handle complaints for all institutions in the state, except Federally run institutions (including the service academies) and tribal institutions such as tribal-controlled community colleges.

See State Higher Education Executive Officers (<https://sheeo.org>) (SHEEO) for resources relating to state authorization of distance education. Students should contact the agency listed in their home state if they seek further assistance.

## Complaints to State Education Department

Any individual who continues to feel aggrieved after pursuing the options outlined previously, is unable to resolve the problems, or believes the institution has not properly addressed the concerns may file a written complaint with one of the following:

New York State Education Department  
Office of College and University Evaluation  
Education Building  
5 North Mezzanine  
89 Washington Avenue  
Albany, NY 12234

State University of New York  
Central Administration  
State University Plaza  
Albany, NY 12246

Middle State Commission on Higher Education  
3624 Market Street  
2nd Floor West



# Teacher Certification Office

Chase Hall 222  
(716) 878-6121

[teachercertification.buffalostate.edu](https://teachercertification.buffalostate.edu) (<https://teachercertification.buffalostate.edu>)

The Teacher Certification Office is a resource for Buffalo State students, faculty, and staff in verifying program completion so that Buffalo State graduates can apply for New York State teacher certification. The office also verifies completion of teacher education programs for graduates applying for out-of-state certification and is a resource for education departments in all 50 states.

## New York State Certification

All students who successfully complete an approved educator preparation program may be recommended to the New York State Education Department for a teaching certificate.

The New York State Education Department requires additional steps, including a background check through a fingerprinting process and satisfactory performance on a series of examinations, before a certificate can be issued.

Graduates can apply for a New York State Teacher Certificate online through TEACH Online Services (<http://www.highered.nysed.gov/tcert/teach/>). For the Teacher Certification Office to provide verification of program completion to the New York State Office of Teaching Initiatives, students must provide the certification office permission to release this information. Release forms are available on the Teacher Certification Office website or in the certification office.

## Teacher Certification Examinations

Successful completion of identified New York State Teacher Certification Examinations (NYSTCE) is required for New York teaching certificates in all areas. Information can be obtained from the Teacher Certification Office.

## Interstate Certification

As a participant in the Interstate Certification Project, New York State has reciprocity agreements with a number of other states, allowing Buffalo State graduates to seek certification and employment in other states. These include reciprocity for classroom teachers, vocational teachers, and administrative personnel. The New York State Teacher Certification Examinations may not be acceptable in other states. Students should check with individual states to determine specific requirements.

## Certification for B.A./B.S. Degree Holders

Holders of B.A. or B.S. degrees who wish to become certified may receive advisement from the Teacher Certification Office regarding available options, which may include post-baccalaureate certification programs, master's degree including initial teacher certification, and alternate pathways.

## Transfer Students

Admission is based on academic performance in college and on space availability. A minimum cumulative GPA of 2.0 out of 4.0 is necessary for consideration, although some

programs are very competitive and will require a higher minimum cumulative GPA for admission. Transfer students with more than 45 credit hours are encouraged to apply for and be admitted to their intended major program of study. Those with less than 60 credit hours may be undeclared. No student who is on academic probation at another institution or who has been academically dismissed in the past year will be accepted.

Previously earned credit will be evaluated for all transfer students upon admission to Buffalo State, and accepted students will be apprised regarding transferable credit. A maximum of 90 credit hours may be transferred from other regionally accredited baccalaureate degree-granting institutions, and with no more than 66 credit hours from associate degree programs. Most credit hours earned at other institutions will be accepted, although the college cannot guarantee how credit hours earned will relate to bachelor's degree requirements. The most common cases in which transfer credit hours are not accepted are:

1. Developmental courses in mathematics, English, and learning skills.
2. Courses in programs not offered at Buffalo State (e.g., nursing, occupational therapy, etc.).

Only credit is transferable. Grades, quality points, and cumulative averages do not transfer.

The evaluation of transfer credit hours is recorded in Degree Works, Buffalo State's online degree audit system (<https://registrar.buffalostate.edu/degree-works/>). The system records the major and general college requirements that have already been fulfilled, and those that remain.

Departments reserve the right to refuse to accept transfer credit hours in fulfillment of their own major requirements. Whether or not a course fulfills a major requirement may be open to discussion with the department chair or academic adviser, and it is useful to have a copy of the catalog from the previous institution available.

Refer to DOPS Policy I:01:05 (<http://bscintra.buffalostate.edu/dops/policysect1/010105.pdf>).

## Transcript of Academic Record

### Official Transcripts

Official transcripts are ordered online (<https://registrar.buffalostate.edu/transcript-ordering/>). There is a \$9 fee per request. Online transcript orders that select the Buffalo State Registrar's Office pick-up option require proper photo ID at the time of pick-up. Transcript requests will not be processed for students who have incurred a financial obligation to the college.

### Unofficial Transcripts

Current students who know their Banner ID and PIN can access self-service Banner to view or print an unofficial transcript to assist in academic planning. There is no fee for viewing or printing an unofficial transcript. Unofficial Transcripts are not available to students in the spring and fall term during the final grading period. Unofficial transcripts are

not available to students who do not have access to the Self Service Banner (SSB) portal.

### Verification of Records

Current students who have access to the Banner SSB portal (under student records tab) can print an online enrollment verification through Banner Self Service ([https://banner.buffalostate.edu/pls/PROD/twbkwbis.P\\_GenMenu/?name=homepage](https://banner.buffalostate.edu/pls/PROD/twbkwbis.P_GenMenu/?name=homepage)).

## Transportation to Off-Campus Instructional Sites

Students are responsible for providing their own transportation to off-campus sites for required courses, including student teaching and participation.

## Undergraduate Unit of Credit (Credit Hour)

The semester hour is the unit of course credit. It represents completion of one 50-minute class period per week for one semester. A course having three class periods a week will earn 3 semester hours of credit. Studio and laboratory classes usually earn 1 credit for each two hours of attendance unless otherwise indicated. The college expects student preparation of two hours for each hour in class.

### Quality Point System

The quality point system is used for determining GPAs, as follows:

Letter Grade	Description
A	4.0
A-	3.67
B+	3.33
B	3.0
B-	2.67
C+	2.33
C	2.0
C-	1.67
D+	1.33
D	1.0
E	0.0
EV	0.0

No other letters carry quality point value.

### Term GPA

A student's term GPA is computed by dividing the total number of quality points by the total number of credit hours attempted in one semester. Only grades carrying quality points are included. For example, consider a student with the following courses and grades at the end of a semester.

Course	Grade	Credit	Quality Point Value	Points
MAT 161	B-	4	(X2.67)	10.68
SOC 101	A	3	(X4)	12.00

ENG 250	E	3	(X0)	0
HEW 101	C	1	(X2.00)	2.00
PHI 220	D+	3	(X1.33)	3.99
<b>Total</b>		<b>14</b>		<b>28.67</b>

The student has attempted 14 credit hours, successfully completed 11, and earned 28.67 quality points. The formula for computing this student's term average follows:  $28.67 / 14 = 2.04$

(Term Quality Points / Term Credit Hours) = (Term GPA)

If the student had taken an additional 3-credit-hour course, DES 371, and received a P grade, the average would not change. If the student received an F grade in DES 371 using the pass-fail option, the average would not change.

Refer to DOPS Policy I:10:00 (<http://bscintra.buffalostate.edu/dops/policysect1/011000.pdf>).

## Withdrawal from Courses

Instructors are required to notify students of their academic standing no later than the end of the ninth week of the semester, or after two-thirds of a summer session or January Term. If a student does not officially withdraw from a course and stops attending, a grade of E will be recorded.

Students who wish to leave a course after the drop/add period and before the final withdrawal date (the end of the 10th week of the semester, or after two-thirds of a Summer Session or January Term) may withdraw via Self Service Banner. Nonattendance at the first class meeting does not withdraw a student from a class.

Students withdrawing from some coursework may be eligible for a refund in accordance with the college refund schedule, which is posted each term on the Student Accounts website (<http://studentaccounts.buffalostate.edu/>). Beyond the end of the refund schedule's time limit, full charges are assessed. Student-teaching courses have different deadlines. Students should check with their departments.

Withdrawals remain on the transcript and are recorded as W's but do not count in credit hours or GPAs. Withdrawal from a course may affect eligibility for financial aid in the current semester and in future semesters. For additional information about financial aid eligibility, refer to the financial aid section of this catalog, or online (<https://financialaid.buffalostate.edu>).

Before withdrawing from a course, careful thought should be given to the reasons for withdrawing and possible consequences. Course Withdrawals can have a negative impact on both your progress toward graduation and eligibility for financial aid. Withdrawal from Course should be used infrequently and considered an action of last resort. It is to the student's advantage to read the instructions under Withdrawal from Course (<https://registrar.buffalostate.edu/withdrawal-course/>) before withdrawing.

## Academic Organization

SUNY Buffalo State is organized into four schools: the School of Arts and Sciences, the School of Education, the School of the Professions, and the Graduate School. Each

school contains specific departments responsible for the degree programs offered there. Each school reports to an academic dean who is responsible for the administration of the departments and the degree programs residing in that area. Students should consult with their dean, usually by appointment, when issues remain unresolved after having met with their department chair. All the major areas of study or interdisciplinary programs described below fall under the responsibility of one or more of the departments.

Each program description gives valuable information concerning all aspects of each course of study offered at Buffalo State. This information includes the department offering the program, the degree that is granted, an explanation of the program's content and purpose, special admission requirements, required credit hours in the major field and outside of the field, the number of electives allowed, and total degree requirements.

## School of Arts and Sciences

School of Arts and Sciences (<https://artsandsciences.buffalostate.edu/>)

The following undergraduate departments are in the School of Arts and Sciences:

- Anthropology
- Art and Design
- Biology
- Chemistry
- Communication
- Earth Sciences and Science Education
- Economics and Finance
- English
- Geography and Planning
- History and Social Studies Education
- Mathematics
- Modern and Classical Languages
- Music
- Physics
- Political Science and Public Administration
- Psychology
- Sociology
- Philosophy
- Theater

The School of Arts and Sciences also offers interdisciplinary degree programs in Africana Studies, Arts and Letters, Television and Film arts, Women and Gender Studies and Writing.

## School of Education

School of Education (<https://schoolofeducation.buffalostate.edu/>)

The following undergraduate departments are in the School of Education:

- Adult Education
- Career and Technical Education

- Elementary Education, Literacy and Educational Leadership
- Exceptional Education
- Social and Psychological Foundations of Education

The School of Education also offers degree programs in individualized studies.

## School of the Professions

School of the Professions (<https://professions.buffalostate.edu/>)

The following undergraduate departments are in the School of the Professions:

- Business
- Computer Information Systems
- Creative Studies
- Criminal Justice
- Engineering Technology
- Fashion and Textile Technology
- Health, Nutrition, and Dietetics
- Hospitality and Tourism
- Social Work
- Speech-Language Pathology.

The School of the Professions also offers degree programs in individualized studies.

## Collegewide Degree Requirements for Baccalaureate Degrees

Students entering Buffalo State before fall 2006 or who were readmitted in fall 2006 should consult with their adviser for general education requirements.

Students entering Buffalo State between fall 2006 and spring 2014 should consult with their adviser and [intellectualfoundations.buffalostate.edu/if-fall-2006-spring-2014](http://intellectualfoundations.buffalostate.edu/if-fall-2006-spring-2014) (<http://intellectualfoundations.buffalostate.edu/if-fall-2006-spring-2014/>) for general requirements.

The Intellectual Foundations 2014 (IF 14) program is required of all undergraduates entering Buffalo State who begin their college careers in summer 214 or later. For the most-up-to-date information, consult [intellectualfoundations.buffalostate.edu/if-fall-2006-spring-2014](http://intellectualfoundations.buffalostate.edu/if-fall-2006-spring-2014) (<http://intellectualfoundations.buffalostate.edu/if-fall-2006-spring-2014/>).

### Transfer Students

Transfer Students with AA, AS, BA, BS degrees are expected to:

- Satisfy the knowledge, competencies, and skills areas in the SUNY GER as defined by the 2010 Policy (Trustee Resolution 2010-006) of the Board of Trustees. Requirements are satisfaction of two competencies and satisfaction of 7 of 10 of the knowledge and skills areas including two required areas.

- Earn 30 credits of courses approved by SUNY GER.
- Satisfy the SUNY Buffalo State diversity requirement via course completion or transfer course equivalency.

## Mission of the Intellectual Foundations 2014 Program

Intellectual Foundations 2014 (IF 14) is the general education, or liberal arts, curriculum at Buffalo State. It encompasses the SUNY General Education Requirements and is designed to provide the intellectual and creative foundations for all educated persons regardless of their chosen profession. IF 14 promotes an understanding of the continuity of human history, the depth of inherited knowledge, the validity of diverse modes of inquiry, the value of artistic expression, and the richness of our collective experience. The purpose of IF 14 is to develop the skills and habits of mind required for a life of intellectual curiosity and civic engagement.

## Intellectual Foundations 2014 Program Requirements

Intellectual Foundations 2014 Program Requirements The Intellectual Foundations 2014 (IF 14) program constitutes 33-39 of the 120 credit hours necessary for graduation, divided among 11 areas of knowledge and 3 areas of intellectual skills and competencies. In each of the 11 areas of knowledge, students may select from lists of approved courses. These lists are updated each semester, and only those courses that appear on the list during the semester the student successfully completes those courses may be applied to the IF 14 requirements. The 3 areas of intellectual skills and competencies in major courses or their equivalents.

The courses that meet the IF 14 requirement as of this printing are listed on the following pages with the specific categories and credit distribution. For up-to-date course listings: [intellectualfoundations.buffalostate.edu/courses-and-requirements](http://intellectualfoundations.buffalostate.edu/courses-and-requirements) (<http://intellectualfoundations.buffalostate.edu/courses-and-requirements/>).

If you have questions about the Intellectual Foundations 2014 requirements or which requirements you should be following, please consult your department office or the Academic Commons, South Wing 100, (716) 878-5223. For the most current information about Intellectual Foundations requirements, visit [intellectualfoundations.buffalostate.edu/if-2014-fall-2014](http://intellectualfoundations.buffalostate.edu/if-2014-fall-2014) (<http://intellectualfoundations.buffalostate.edu/if-2014-fall-2014/>).

## Categories and Credit Distribution

Under the Intellectual Foundations 2014 requirements, a student must complete the requisite number of credit hours in the following categories:

Credit Hours	Categories
0-6	Basic Writing and Oral Communication: CWP 101 and CWP 102 or equivalent
3	Mathematics/Quantitative Reasoning <sup>1</sup>
3	Cognate Foundations: Arts <sup>2</sup>
3	Cognate Foundations: Humanities <sup>2</sup>
3	Cognate Foundations: Natural Sciences <sup>2</sup>
3	Cognate Foundations: Social Sciences <sup>2</sup>
3	Foundations of Civilizations: American History
3	Foundations of Civilizations: Western Civilization
3	Foundations of Civilizations: Non-western Civilization
0-6	Global Engagement <sup>3</sup>
3	Diversity
0	IF 14 Infused: Writing <sup>3</sup>
0	IF 14 Infused: Critical Thinking
0	IF 14 Infused: Information Management
<b>33-39</b>	<b>Total credit hours</b>

- <sup>1</sup> Students cannot be exempted from this requirement.
- <sup>2</sup> Course must be outside of the primary major prefix.
- <sup>3</sup> Proficiency may be wholly or partially completed prior to college.

Students may count mathematics and quantitative reasoning, foundations of civilizations, diversity, and global engagement courses toward their major and minor requirements.

## Additional Degree Requirements

In addition to the liberal arts education coursework described on the following pages, all undergraduate degree candidates must meet the following college wide graduation requirements:

- Successful completion of required coursework in the declared major
- Successful completion of at least 120 credit hours, of which at least 45 must be upper division. At least 32 credits must be taken at Buffalo State, including the last 16 credits
- Final minimum overall cumulative GPA of 2.0
- Final minimum major GPA of 2.0
- Final minimum cumulative GPA for courses taken in a minor is 2.0.
- Successful clearing of all I, N, or X grades

# Course Coding System

A four-character code is used to identify which Intellectual Foundations 2014 requirement(s) a course fulfills. This information is printed in the legend of the online undergraduate class schedule. The IF 2014 codes are as follows:

Code	IF Requirement Area
AH14	American History
AR14	Arts
WO14	Basic Written and Oral Communication
DI14	Diversity
GE14	Global Engagement
HU14	Humanities
MQ14	Mathematics and Quantitative Reasoning
NS14	Natural Science
NW14	Non-Western Civilization
SS14	Social Science
WC14	Western Civilization

## Department (Major) Requirements

A major consists of no fewer than 24 credit hours and usually no more than 42 credit hours in a particular field of study. Each department sets its own requirements. To receive a degree in a particular major, students must complete at least 6 credit hours in their major at Buffalo State. Courses and sequences of a major are determined by individual departments with the approval of the College Senate, Academic Affairs, and the president.

## Second Majors and Minors

Courses selected to satisfy the general education requirement may be used to fulfill any part of the requirements of a second major or a minor.

## Electives

The number of unrestricted elective courses varies according to the individual program. These courses are needed to make up the 120 credit hours required for graduation. Check the individual program requirements to determine the number of electives allowed. These courses are taken in addition to general education and departmental credit hours.

## Global Engagement Requirement

Discuss this requirement with your academic adviser. Students can satisfy the Global Engagement requirement through four options:

Option	Description
Option 1	Study a Foreign Language
Option 2	Pass a Proficiency Exam at the Novice-High Level
Option 3	Participate in a Study Abroad Experience
Option 4	Participate in a Global at Home and Abroad Experience

For Option 1, students must demonstrate proficiency in a single foreign language equivalent to the successful completion of one year of college-level work (102-level proficiency or equivalent).

Students who have successfully completed foreign language study at the high school level may register for the appropriate course. Successful completion of one language through the second year in high school satisfies the global engagement requirement. Proficiency in a foreign language also may be achieved by completing 6 credits on the College-Level Examination Program test (see section on Alternative Methods of Earning College Credit (p. 39)).

Sign language may be substituted for foreign language for students in all majors.

## Upper-Division Course Requirement

All students must complete a minimum of 45 credit hours of upper-division coursework (300–400 levels) to be eligible for graduation. An exception may be made for certain major courses. Specific information can be obtained through the appropriate major departments.

## Intellectual Skills and Competencies

Writing, critical thinking, and information management represents critical components of a Buffalo State education. The infusion of these skills and competencies into all types of courses across the curriculum is encouraged.

## Basic Writing Requirement

The college requires all matriculated students to demonstrate college-level skills in composition. For more information, see Basic Writing Requirement (p. 43) in the Academic Policies section of this catalog.

## Academic Minors

Buffalo State academic minors are specially conceived sequences of courses designed to allow students to achieve important goals. A minor may be used to complement the major course of study, broaden and enhance career opportunities, gain expertise in an area of interdisciplinary studies, or provide in-depth study in a subject of special interest. While an academic minor is an optional study

program, students often find it an excellent way to make strategic use of all college elective courses.

Each minor program consists of 18–21 credit hours of coursework. A minimum cumulative 2.0 GPA is required for admission to a minor program, and at least three of the courses in each minor must be completed at the college.

Students may not elect a minor from the same discipline as their major program. A minor must include at least 9 distinct credit hours (i.e., not overlap with primary major requirements or overlap with the requirements of a minor or concentrations). A minor may include no more than half of its credit hours at the lower-division level. Students who complete the minor with a minimum 2.0 GPA will have the minor recorded on their official transcript.

Only matriculated students who intend to seek an undergraduate degree may be accepted into a minor program. A minor may be earned only while simultaneously completing a major degree program. Students may declare up to two minors.

Students interested in selecting a minor program should contact the coordinating department as soon as possible and complete and submit the form, Undergraduate Change or Commit Form for Major, Certificate, Minor, Second Major, Dual Degree (<https://registrar.buffalostate.edu/sites/registrar.buffalostate.edu/files/uploads/Documents/forms/MajorChangeForm.pdf>). A listing of all minors with requirements is on file in each department and dean's office. Only the coordinating department provides advisement on individual minors.

## Intellectual Foundations Courses

### Basic Written and Oral Communication

Code	Title	Credit Hours
CWP 101	COLLEGE WRITING I	3
CWP 102	ARGUMENTATION AND RESEARCH	3

### Global Engagement

Code	Title	Credit Hours
ARA 101/102	BEGINNING ARABIC I (& II)	3
CHI 101/102	BEGINNING CHINESE I (& II)	3
FRE 101/102	BEGINNING FRENCH I (& II)	3
GER 101/102	BEGINNING GERMAN I (& II)	3
GRK 101/102	BEGINNING NEW TESTAMENT GREEK I (& II)	3
ITA 101/102	BEGINNING ITALIAN I (& II)	3
LAT 101/102	BEGINNING LATIN I (& II)	3
SLP 101/102	AMERICAN SIGN LANGUAGE I (& II)	3
SPA 101/102	BEGINNING SPANISH I (& II)	3

## Cognate Foundations: Arts

Code	Title	Credit Hours
Choose one course for a total of at least three credits. Course must be outside of the primary major prefix.		
AAD 100	INTRODUCTION TO THE VISUAL ARTS	3
AAD 101	DRAWING I	3
AAD 251	ART HISTORY I	3
AAD 252	ART HISTORY II	3
AED 100	ESSENTIALS OF VISUAL ARTS	3
AED 200	FUNDAMENTALS OF ART INQUIRY	3
ALT 150	INTRODUCTION TO DIGITAL MEDIA	3
DAN 200	MODERN DANCE TECHNIQUE I	3
DAN 214	INTRODUCTION TO DANCE TECHNIQUES	3
DAN 224	DANCE APPRECIATION	3
DES 114	WORKSHOP IN CRAFTS	3
DES 190	DESIGN SYMPOSIUM	3
ENG 170	INTRODUCTION TO CREATIVE WRITING	3
FAR 100	INTRODUCTION TO FINE ARTS	3
FAR 101	DRAWING I	3
FAR 250	ART HISTORY I	3
FAR 251	ART HISTORY II	3
HON 103	ARTS SEMINAR: STUDIO ARTS (Honors Program Only)	3
HON 106	ARTS FOUNDATIONS SEMINAR: INQUIRY AND ANALYSIS	3
MUS 201	SURVEY OF WESTERN MUSIC HISTORY	3
MUS 206	FOUNDATIONS OF AMERICAN POPULAR MUSIC 1900-1950	3
MUS 208	SURVEY OF WORLD MUSIC CULTURES	3
MUS 210	MUSIC THEORY FOR NON-MAJORS	3
MUS 290	PHILHARMONIA ORCHESTRA	1
THA 106	INTRODUCTION TO THEATER ARTS	3
THA 107	THEATER PERFORMANCE FOR NON-MAJORS	3
THA 234	INTRODUCTION TO THEATER DESIGN	3

## Cognate Foundations: Humanities

Code	Title	Credit Hours
Choose one course for a total of at least 3 credit hours. Course must be outside of the primary major prefix.		
AAS 240	AFRICAN AMERICAN LITERATURE TO 1940	3
COM 100	MEDIA LITERACY	3

ENG 151	INTRODUCTION TO POETRY	3
ENG 160	INTRODUCTION TO LITERATURE AND FILM	3
ENG 205	HISTORY OF CINEMA I	3
ENG 206	HISTORY OF CINEMA II	3
ENG 210	BRITISH LITERATURE TO 1700	3
ENG 211	BRITISH LITERATURE 1700-1914	3
ENG 212	BRITISH LITERATURE SINCE 1914	3
ENG 220	AMERICAN LITERATURE TO 1865	3
ENG 221	AMERICAN LITERATURE SINCE 1865	3
ENG 230	COMPARATIVE LITERATURE	3
ENG 231	WOMEN IN LITERATURE	3
ENG 240	AFRICAN AMERICAN LITERATURE TO 1940	3
ENG 241	AFRICAN AMERICAN LITERATURE SINCE 1940	3
ENG 243	INTRODUCTION TO LATINX LITERATURE	3
ENG 252	BRITISH MODERNISM	3
ENG 255	THE SHORT STORY	3
HON 101	HUMANITIES SEMINAR (Honors Program only)	3
HUM 100	INTRODUCTION TO HUMANITIES	3
HUM 200	THE HISTORY OF RHETORIC	3
MCL 100	ITALIAN CINEMA I	3
MCL 110	INTRO FRENCH CINEMA	3
MCL 200	ITALIAN CINEMA II	3
MUS 223	SACRED MUSIC IN WESTERN SOCIETY	3
PHI 101	INTRODUCTION TO PHILOSOPHY	3
PHI 102	INTRODUCTION TO ETHICS	3
PHI 110	THE MEANING OF LIFE	3
PHI 111	ETHICS FOR SCIENTISTS	3
PHI 112	ETHICS FOR BUSINESS	3
PHI 113	ENVIRONMENTAL ETHICS	3
REL 104	INTRODUCTION TO RELIGIOUS STUDIES	3
REL 205	INTRODUCTION TO THE OLD TESTAMENT	3
REL 206	INTRODUCTION TO THE NEW TESTAMENT	3
SPC 103	INTRODUCTION TO HUMAN COMMUNICATION	3

#### Cognate Foundations: Natural Sciences

Code	Title	Credit Hours
Choose one course for a total of at least 3 credit hours. Course must be outside of the primary major prefix.		
ANT 100	HUMAN ORIGINS	3
BIO 100	PRINCIPLES OF BIOLOGY	3
BIO 101	HUMAN BIOLOGY	3

BIO 104	ENVIRONMENTAL BIOLOGY	3
CHE 100	CHEMISTRY AND SOCIETY	3
CHE 101	GENERAL CHEMISTRY I	3
CHE 111	FUNDAMENTALS OF CHEMISTRY I	3
GEG 101	WORLD NATURAL ENVIRONMENTS	3
GEG 241	METEOROLOGY	3
GES 101	INTRODUCTORY GEOLOGY	3
GES 102	HISTORICAL GEOLOGY	3
GES 104	GEOLOGY OF THE SEVEN SUMMITS	3
GES 111	OCEANOGRAPHY	3
GES 131	INTRODUCTORY ASTRONOMY	3
GES 123	ENVIRONMENTAL EARTH SCIENCE	3
GES 124	GEOLOGIC HAZARDS	3
GES 132	THE SOLAR SYSTEM	3
GES 241	METEOROLOGY	3
HON 102	NATURAL SCIENCE SEMINAR (Honor Program only)	3
NFS 102	INTRODUCTORY NUTRITION	3
PHY 100	PHYSICS FOR NON-SCIENCE MAJORS	3
PHY 103	UNDERSTANDING SOUND	3
PHY 104	PHYSICS FOR K-8 TEACHERS	3
PHY 107	GENERAL PHYSICS I	4
PHY 111	UNIVERSITY PHYSICS I	5
SCI 100	CONTEMPORARY SCIENCE	3
SCI 105	PHYSICAL SCIENCE FOR NONSCIENCE STUDENTS	3
SCI 231	POLLUTION, THE ENVIRONMENT, AND SOCIETY	3
SCI 232	ENERGY AND SUSTAINABILITY	3

#### Cognate Foundations: Social Sciences

Code	Title	Credit Hours
Select one course for a total of at least 3 credit hours. Course must be outside of the primary major prefix.		
ANT 244	FOLKLORE AND LIFE	3
CRJ 101	INTRODUCTION TO CRIMINAL JUSTICE	3
ECO 101	THE ECONOMIC SYSTEM	3
ECO 201	PRINCIPLES OF MACROECONOMICS	3
ECO 202	PRINCIPLES OF MICROECONOMICS	3
GEG 102	HUMAN GEOGRAPHY	3
HON 202	SOCIAL SCIENCE SEMINAR (Honor Program only)	3
PSC 101	INTRODUCTION TO GOVERNMENT AND POLITICS	3
PSC 103	GREAT POLITICAL ISSUES	3
PSC 230	INTERNATIONAL RELATIONS	3

PSY 101	INTRODUCTION TO PSYCHOLOGY	3
PSY 120	POSITIVE PSYCHOLOGY: HAPPINESS, HOPE AND HUMOR	3
SLP 206	BUILDING SOCIAL CONNECTIONS: COMMUNICATION, LANGUAGE AND CONVERSATION	3
SOC 100	INTRODUCTION TO SOCIOLOGY	3
SOC 240	ANALYZING SOCIAL PROBLEMS	3
SPF 203	SCHOOL AND SOCIETY	3

#### Foundations of Civilizations: American History

Code	Title	Credit Hours
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Choose one three-credit course.

ANT 250	HISTORICAL ARCHAEOLOGY	3
ECO 103	ECONOMIC HISTORY OF THE UNITED STATES	3
HIS 106	HISTORY OF AMERICAN LIFE I	3
HIS 107	HISTORY OF AMERICAN LIFE II	3
HON 104	AMERICAN HISTORY SEMINAR ((for honors only))	3
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS	3

#### Foundations of Civilizations: Western Civilization

Code	Title	Credit Hours
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Choose one three-credit course.

AED 315	ARTS IN LIVING	3
ANT 303	THE ANTHROPOLOGY OF EUROPE	3
DAN 324	THE GLOBALIZATION OF DANCE	3
ENG 130	BIBLICAL AND CLASSICAL LITERATURE	3
ENG 131	MEDIEVAL AND RENAISSANCE LITERATURE	3
ENG 380	THE HISTORY OF THE PRINTED BOOK	3
GEG 362	GEOGRAPHY OF THE UNITED STATES AND CANADA	3
GEG 364	GEOGRAPHY OF EUROPE	3
HIS 115	FOUNDATIONS OF WESTERN CIVILIZATION	3
HIS 116	EUROPE SINCE 1500	3
HIS 117	TWENTIETH-CENTURY EUROPE	3
HON 209	WESTERN CIVILIZATIONS SEMINAR	3
HON 309	WESTERN IDEALS OF EXCELLENCE	3
IDE 205	HISTORY OF INTERIOR DESIGN AND ARCHITECTURE I	3
MUS 224	MUSIC AND POLITICAL ACTION	3

PHI 301	JUSTICE: LIBERTY VS. EQUALITY	3
PHI 310	HISTORY OF ETHICS	3
PHI 347	WORLD OF SOCRATES	3
PSC 351	HISTORY OF POLITICAL THOUGHT I	3
PSC 352	HISTORY OF POLITICAL THOUGHT II	3
REL 105	INTRODUCTION TO CHRISTIAN THOUGHT	3
REL 121	INTRODUCTION TO JEWISH THOUGHT	3
REL 360	WESTERN MONOTHEISM	3
THA 317	THEATRE HISTORY: ANCIENT TO BAROQUE	3
THA 332	PERIOD STYLES AND CULTURE	3

#### Foundations in Civilizations: Non-Western Civilizations

Code	Title	Credit Hours
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Choose one three-credit course.

ANT 101	UNDERSTANDING CULTURE	3
ANT 300	INDIGENOUS PEOPLES OF WESTERN NORTH AMERICA	3
ANT 301	INDIGENOUS PEOPLES OF EASTERN NORTH AMERICA	3
ANT 310	MESOAMERICAN ARCHAEOLOGY	3
ANT 327	INTRODUCTION TO MEDICAL ANTHROPOLOGY	3
ANT 329	WORLD PREHISTORY	3
ANT 330	INDIGENOUS HAWAIIANS	3
ANT 332	GENDER AND ARCHAEOLOGY	3
ANT 350	GLOBAL MARRIAGE PRACTICES	3
ANT 377	ANCIENT CIVILIZATION	3
ANT 381	RELIGION, MAGIC, AND CULTURE	3
ANT 383	ETHNOGRAPHY OF TURKEY	3
ENG 353	AMERICAN INDIAN LITERATURE	3
FTT 349	HISTORY OF TEXTILES	3
GEG 359	ARCTIC GEOGRAPHY FROM AN INUIT PERSPECTIVE	3
GEG 360	GEOGRAPHY OF ASIA	3
HEW 327	INTRODUCTION TO MEDICAL ANTHROPOLOGY	3
HIS 230	WORLD CIVILIZATIONS I	3
HIS 231	WORLD CIVILIZATIONS II	3
HIS 306	AFRICA TO 1800	3
HIS 307	HISTORY OF INDIA	3
HIS 310	HISTORY OF EAST ASIA: THE TRADITIONAL ERA	3
HIS 320	MODERN HISTORY OF JAPAN AND KOREA	3
HIS 337	AFRICA SINCE 1800	3
HIS 338	MODERN HISTORY OF CHINA	3



HIS 445	HISTORY OF WOMEN AND GENDER IN THE MIDDLE EAST	3
HIS 465	IMPERIALISM IN THE 19TH AND 20TH CENTURIES	3
HON 201	NON-WESTERN CIVILATIONS SEMINAR	3
MUS 209	SUB-SAHARAN AFRICAN MUSIC AND CULTURES	3
NFS 108	FOOD CULTURE AND CIVILIZATION IN THE FAR EAST	3
PSC 337	POLITICS OF GLOBALIZATION	3
PSC 340	POLITICS OF DEVELOPING COUNTRIES	3
REL 303	WOMEN IN GLOBAL RELIGIONS	3
REL 321	WORLD RELIGIONS	3

### Mathematics & Quantitative Reasoning

Code	Title	Credit Hours
Choose one, three-credit course. Course may satisfy multiple requirements.		
CIS 121	INTRODUCTION TO CODING	3
DSA 201	FOUNDATIONS OF DATA-ORIENTED COMPUTING WITH PYTHON	4
ECO 305	STATISTICS FOR ECONOMICS	3
MAT 103	INTRODUCTION TO MATHEMATICS	3
MAT 114	FUNCTIONS AND MODELING	3
MAT 122	ELEMENTARY MATHEMATICS FROM AN ADVANCED STANDPOINT II	4
MAT 124	FUNCTIONS AND MODELING II	3
MAT 126	APPLIED CALCULUS I	4
MAT 161	CALCULUS I	4
MAT 270	DISCRETE MATHEMATICS	3
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS	3
PHI 107	INTRODUCTION TO MATHEMATICAL LOGIC	3

### Diversity

Code	Title	Credit Hours
Choose one, three-credit hour course. Course may satisfy multiple requirements.		
AAS 100	INTRODUCTION TO AFRICANA STUDIES	3
AAS 240	AFRICAN AMERICAN LITERATURE TO 1940	3
AAS 321	THE AFRICAN AMERICAN FAMILY	3
AAS 351	SOCIOLOGY OF RACE AND ETHNICITY	3
ANT 300	INDIGENOUS PEOPLES OF WESTERN NORTH AMERICA	3

ANT 301	INDIGENOUS PEOPLES OF EASTERN NORTH AMERICA	3
ANT 330	INDIGENOUS HAWAIIANS	3
ATS 325	ART FOR CHILDREN WITH SPECIAL LEARNING NEEDS	3
BUS 305	WORKFORCE DIVERSITY IN THE TWENTY-FIRST CENTURY	3
CAS 302	GLOBAL CHILD ADVOCACY ISSUES	3
CRJ 425	RACE, ETHNICITY, AND THE ADMINISTRATION OF JUSTICE	3
CRJ 430	GENDER AND THE ADMINISTRATION OF JUSTICE	3
DAN 230	DANCE TECHNIQUES FROM THE AFRICAN AMERICAN PERSPECTIVE	3
DAN 234	THE POLITICS OF BLACK DANCE IN AMERICA	3
ECO 302	WOMEN IN THE ECONOMY	3
EDU 310	TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL	3
ENG 231	WOMEN IN LITERATURE	3
ENG 240	AFRICAN AMERICAN LITERATURE TO 1940	3
ENG 241	AFRICAN AMERICAN LITERATURE SINCE 1940	3
ENG 243	INTRODUCTION TO LATINX LITERATURE	3
ENG 353	AMERICAN INDIAN LITERATURE	3
ENG 354	ETHNIC AMERICAN MINORITY LITERATURES	3
ENG 385	GENDER AND SEXUALITY IN LITERATURE	3
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	3
GEG 309	URBAN GEOGRAPHY	3
HIS 302	HISTORY OF WOMEN IN AMERICA	3
HIS 311	AMERICAN IMMIGRATION AND EMIGRATION	3
HIS 322	AFRICAN AMERICAN HISTORY	3
HIS/SSE 363	AMERICAN IDENTITY IN TRANSITION: DIVERSITY AND PLURALISM IN THE UNITED STATES	3
HON 303	DIVERSITY SEMINAR	3
MED 200	FOUNDATIONS OF TEACHING MATHEMATICS 7-12 AND FIELD EXPERIENCE	3
MUS 206	FOUNDATIONS OF AMERICAN POPULAR MUSIC 1900-1950	3
PHI 361	RACE AND PROGRESS	3
PLN 215	INTRODUCTION TO URBAN AND REGIONAL PLANNING	3
PSC 225	WOMEN IN AMERICAN POLITICS	3
PSY 387	PSYCHOLOGY OF GENDER	3

SOC 240	ANALYZING SOCIAL PROBLEMS	3
SOC 310	SOCIOLOGY OF SEX AND GENDER	3
SOC 312	WOMEN IN SOCIETY	3
SOC 321	THE AFRICAN AMERICAN FAMILY	3
SOC 333	SOCIOLOGY OF SOCIAL MOVEMENTS	3
SOC 350	POWER, CLASS, AND INEQUALITY	3
SOC 351	SOCIOLOGY OF RACE AND ETHNICITY	3
SPC 311	INTERCULTURAL COMMUNICATION	3
SPC 333	RACE, CLASS AND GENDER IN THE MEDIA	3
SPF/SOC 366	CULTURAL PROFICIENCY AND PUBLIC ACHIEVEMENT	4
THA 421	DRAMA FROM THE AFRICAN AMERICAN PERSPECTIVE	3
SWK 301	POVERTY AND PUBLIC POLICY	3
WGS 101	INTRODUCTION TO WOMEN AND GENDER STUDIES	3

### Intellectual Skills and Competencies

The following skills and competencies will be infused into major courses:

- Writing across the Curriculum
- Critical Thinking
- Information Management

Students will complete these skills and competencies in their major or equivalents.

## Undergraduate Major and Minor Programs

### Undergraduate Major Programs at a Glance

Major Program	Degree	HEGIS Code	Buffalo St. code	Department
Africana Studies ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/africana-studies-ba/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/africana-studies-ba/</a> )	B.A.	2211	BA-AS AFS	Africana Studies
Anthropology (p. 72)	B.A.	2202	BA-AS ANT	Anthropology
Art (p. 74)	B.A.	1002	BA-AS ART	Art and Design

Art Education (K-12) (p. 74)	B.F.A.	0831	BFA-AS AED	Art and Design
Art History (p. 76)	B.A.	1003	BA-AS ARH	Art and Design
Arts and Letters (p. 79)	B.A.	4901	BA-AS ALT	Dean, A&H
Biology (p. 80)	B.A.	0401	BA-AS BIO	Biology
Biology ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/biology-bs/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/biology-bs/</a> )	B.S.	0401	BS-AS BIO	Biology
Business Administration (p. 81)	B.S.	0506	BS-SP BSA	Business
Business and Marketing Education (p. 83)	B.S.	0838.01	BS-ED BME	Career and Technical Education
Business and Marketing Education (p. 83)	PTCP	0838.01	UG-PBC-ED BME	Career and Technical Education
Career and Technical Education (p. 84) <sup>1</sup>	B.S.	0839.03	BS-ED CTE	Career and Technical Education
Career and Technical Education (p. 85)	PTCP	0839.03	UG-PBC-ED CTE	Career and Technical Education
Ceramics (p. 86)	B.F.A.	1009	BFA-AS CER	Art and Design
Chemistry (p. 87)	B.S.	1905	BA-AS CHE	Chemistry
Childhood Education (Grades 1-6) (p. 89)	B.S.	0802	BS-ED CED	Elementary Education, Literacy and Educational Leadership Department
Childhood Education and English Extension (Grades 1-6 and English 7-9) (p. 90)	B.S.	0802	BS-ED CEN	Elementary Education, Literacy and Educational Leadership Department

Childhood Education and Mathematics Extension (Grades 1-6 and Mathematics 7-9) (p. 91)	B.S.	0802	BS-ED CMT	Elementary Education, Literacy and Educational Leadership Department	Early Childhood and Childhood Education (Birth - Grade 6, Combined Program) (p. 106)	B.S.	0522	BS-ED ECC	Elementary Education, Literacy and Educational Leadership Department
Childhood Education and Social Studies Extension (Grades 1-6 and Social Studies 7-9) (p. 93)	B.S.	0802	BS-ED CSS	Elementary Education, Literacy and Educational Leadership Department	Early Childhood Education (Birth - Grade 2) (p. 107)	B.S.	0802	BS-ED ECE	Elementary Education, Literacy and Educational Leadership Department
Communication Studies (p. 94)	B.S.	0699	BA-AS COM	Communication	Earth Sciences (p. 109)	B.S.	1917	BS-AS EAS	Earth Sciences and Science Education
Computer Information Systems (p. 96) <sup>1</sup>	B.S.	0702	BS-SP CIS	Computer Information Systems	Economics (p. 110)	B.A.	2204	BA-AS ECO	Economics and Finance
Criminal Justice (p. 98)	B.S.	2105	BS-SP CRJ	Criminal Justice	Economics (p. 111)	B.S.	2204	BS-AS ECO	Economics and Finance
Criminal Justice Combined Pathway (B.S. and M.S.) ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/criminal-justice-combined-pathway/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/criminal-justice-combined-pathway/</a> )	B.S. and M.S.	2105	BS-SP CRJ and MS-SP CRJ	Criminal Justice	Electrical Engineering Technology (Electronics) (p. 112) <sup>1</sup>	B.S.	0925	BS-SP ETE	Engineering Technology
Didactic Program in Nutrition and Dietetics (p. 102)	B.S.	1306	BS-SP DIE	Health, Nutrition and Dietetics	Electrical Engineering Technology (Smart Grid) (p. 113) <sup>1</sup>	B.S.	0925	BS-SP ETS	Engineering Technology
Dietitian Education Program (p. 103)	B.S.	1306	BS-SP DEP	Health, Nutrition and Dietetics	English (p. 114)	B.A.	1501	BA-AS ENG	English
					English Education (7-12) (p. 115)	B.S.	1501.01	BS-AS ENS	English
					English Education (7-12) (p. 117)	PTCP	1501.01	UG-PBS-AS ENS	English
					Environmental Geography (p. 119)	B.S.	2206	BS-AS EVG	Geography and Planning
					Family and Consumer Sciences Education (p. 122)	B.S.	1301.1	BS-ED FCS	Career and Technical Education
					Fashion and Textile Technology (p. 123)	B.S.	1303	BS-SP FTT	Engineering Technology
					Fibers (p. 126)	B.F.A.	1009	BFA-AS FIB	Art and Design

Forensic Chemistry (p. 128)	B.S.	1999.20	BS-AS FRC	Chemistry	MathematicsPTCP Education (7-12, 5-6 Extension) (p. 147)	1701.01	UG-PBC AS MTX	Mathematics
Geography (p. 130)	B.A.	2206	BA-AS GEG	Geography and Planning	Mechanical Engineering Technology (p. 153) <sup>1</sup>	0925	BS-SP MET	Engineering Technology
Geology ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/geology-bs/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/geology-bs/</a> )	B.S.	1914	BS-AS GEO	Earth Sciences and Science Education	Media Production (p. 154)	0603	BA-AS MDP	Communication
Graphic Design (p. 132)	B.F.A.	1009	BFA-AS GRD	Art and Design	Metals/Jewelry (p. 155)	1009	BFA-AS MJD	Art and Design
Health and Wellness (p. 133)	B.S.	0837	BS-SP HEW	Health, Nutrition and Dietetics	Music (p. 157)	1005	BA-AS MUS	Music
History (p. 134)	B.A.	2205	BA-AS HIS	History and Social Studies Education	Music Education (Pre-K-12) (p. 158)	1005	MUSB-AS MUE	Music
Hospitality Administration (p. 135)	B.S.	1307	BS-SP HTR	Hospitality and Tourism	Painting (p. 159)	1002	BFA-AS PTG	Art and Design
Individualized Studies (p. 137) <sup>1</sup>	B.S.	4901	BS-UC INS	Deans' Offices	Philosophy (p. 160)	1509	BA-AS PHI	Philosophy and Humanities
Industrial Technology (p. 137) <sup>1</sup>	B.S.	0925	BS-SP TEC	Engineering Technology	Photography (p. 161)	1011	BFA-AS PHO	Art and Design
Interior Design (p. 139)	B.F.A.	1009	BFA-AS INT	Art and Design	Physics (p. 162)	1902	BS-AS PHY	Physics
International Relations (p. 141)	B.A.	2207	BA-AS INR	Political Science	Physics (p. 163)	1902	BS-AS PHY	Physics
Journalism (p. 143)	B.A.	0602	BA-AS JBS	Communication	Political Science (p. 164)	2207	BA-AS PSC	Political Science
Mathematics (p. 146)	B.A.	1701	BA-AS MAT	Mathematics	Political Science/ Law 3+3 Combined Pathway ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/political-science-3+3-combined-ba/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/political-science-3+3-combined-ba/</a> )	2207	BA-AS PSC / JD-UB LAW	Political Science and Public Administration
Mathematics - Applied (p. 152)	B.S.	1703	BS-AS AMT	Mathematics	Printmaking (p. 168)	1009	BFA-AS PRT	Art and Design
Mathematics Education (7-12) (p. 149)	B.S.	1701.01	BS-AS MTS	Mathematics	Psychology (p. 170)	2001	BA-AS PSY	Psychology
Mathematics Education (7-12) (p. 150)	PTCP	1701.01	UG-PBC AS MTS	Mathematics	Psychology (p. 171)	2001	BS-AS PSY	Psychology
Mathematics Education (7-12, 5-6 Extension) (p. 148)	B.S.	1701.01	BS-AS MTX	Mathematics	Public Relations and Advertising (p. 174)	0699	BA-AS PCM	Communication

Sculpture (p. 176)	B.F.A.	1002	BFA-AS SCL	Art and Design
Social Studies Education (7-12) (p. 180)	B.S.	2201.01	BS-AS SSS	History and Social Studies Education
Social Studies Education (7-12) (p. 181)	PTCP	2201.01	UG-PBC-AS SSX	History and Social Studies Education
Social Studies Education (7-12, 5-6 Extension) (p. 177)	B.S.	2201.01	BS-AS SSX	History and Social Studies Education
Social Studies Education (7-12, 5-6 Extension) (p. 178)	PTCP	2201.1	UG-PBS-AS SSX	History and Social Studies Education
Social Work (p. 183) <sup>1</sup>	B.S.	2104	BS-SP SWK	Social Work
Sociology (p. 184)	B.A.	2208	BA-AS SOC	Sociology
Spanish (p. 184)	B.A.	1105	BA-AS SPN	Modern and Classical Languages
Special Education and Childhood Education (p. 121)	B.S.	0808	BSED-ED EXE	Exceptional Education
Speech-Language Pathology (p. 186)	B.S.	1220	BS-SP SLP	Speech-Language Pathology
Technology Education (p. 187)	B.S.	0839.01	BS-ED TED	Career and Technical Education
Technology Education (p. 188)	PTCP	0839.01	UG-PBC-ED TED	Career and Technical Education
Television and Film Arts (p. 189)	B.A.	0603	BA-AS TFA	Communication
Theater (p. 190)	B.A.	1506	BA-AS THA	Theater
Urban and Regional Planning (p. 191) <sup>1</sup>	B.S.	2214	BS-AS URP	Geography and Planning
Wood/Furniture (p. 194)	B.F.A.	1009	BFA-AS WFD	Art and Design

Writing (p. 196)	B.A.	10605	BA-AS WRT	English
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<sup>1</sup> Evening study available.

### Undergraduate Minor Programs at a Glance

Minor Program	Code	Department
Africana Studies (p. 71)	AAS	Dean's Office, Arts and Sciences
Anthropology (p. 73)	ANT	Anthropology
Apparel Construction and Patternmaking (p. 73)	ACP	Fashion and Textile Technology
Art History (p. 77)	ARH	Art and Design
Art Therapy (p. 78)	ATH	Art and Design
Astronomy (p. 80)	AST	Earth Sciences and Science Education
Biology (p. 81)	BIO	Biology
Business Economics (p. 84)	BEC	Economics and Finance
Chemistry (p. 88)	CHE	Chemistry
Coaching (p. 94)	COA	Coaching
Computer Information Systems (p. 97) <sup>1</sup>	CIS	Computer Information Systems
Creative Studies (p. 97)	CRS	Center for Studies in Creativity
Criminal Justice (p. 100) <sup>1</sup>	CRJ	Criminal Justice
Dance (p. 101)	DAN	Theater
Design (Ceramic, Fiber, Furniture, Jewelry) (p. 101)	DES	Art and Design
Deviance (p. 102)	DEV	Sociology
Digital Music Production (p. 105)	DMP	Music
Drafting Technologies for Interior Design (p. 105)	DTD	Art and Design
Drawing (p. 106)	DRW	Art and Design
Economic Policy Analysis (p. 109)	EPA	Economics and Finance
Energy Systems (p. 113)	ENY	Engineering Technology
English Education (p. 118)	ENE	English
Environment and Society (p. 119)	EVS	Earth Sciences and Science Education

Environmental Science (p. 120)	ENV	Earth Sciences and Science Education
Ethics (p. 120)	ETH	Philosophy
Exercise Science (p. 122)	ESM	Health and Wellness
Fashion ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/fashion-minor/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/fashion-minor/</a> )	FAH	Fashion and Textile Technology
Fashion Design (p. 125)	FAS	Fashion and Textile Technology
Film Studies (p. 127)	FLM	English
Forensic Anthropology (p. 127)	FAN	Anthropology
French & Francophone Culture (p. 129)	FFC	Modern and Classical Languages
Geographic Information Systems (p. 130)	GIS	Geography and Planning
Geography (p. 131)	GEG	Geography and Planning
Geology (p. 131)	GEO	Earth Sciences and Science Education
Geronotology (p. 131)	GRN	Psychology
History (p. 134)	HIS	History and Social Studies Education
Hospitality Administration (p. 136)	HTR	Hospitality and Tourism
Indigenous Studies (p. 136)	ING	Anthropology
Intelligence Analysis (p. 138)	INA	Criminal Justice
Interior Design Studies (p. 140)	IDS	Art and Design
International Economics (p. 140)	IEC	Economics and Finance
International Relations (p. 142)	IRE	Political Science
Italian (p. 142)	ITA	Modern and Classical Languages
Leadership (p. 143)	LDR	Dean's Office, School of the Professions
Legal Studies (p. 144)	LGL	Political Science
Literary Studies (p. 145)	LSM	English
Mathematics (p. 151)	MAT	Mathematics

Meteorology and Climatology (p. 156)	MTC	Geography and Planning
Museum Studies (p. 157)	MST	History and Social Studies Education
Painting (p. 160)	PTG	Art and Design
Philosophy (p. 161)	PHI	Philosophy and Humanities
Photography (p. 162)	PHO	Art and Design
Physics (p. 164)	PHY	Physics
Political Science (p. 167)	PSC	Political Science
Printmaking (p. 169)	PRT	Art and Design
Professional French (p. 169)	PFR	Modern and Classical Languages
Psychology (p. 172)	PSY	Psychology
Public Administration and Nonprofit Management (p. 173)	PUB	Political Science
Quality (p. 174) <sup>1</sup>	QUA	Technology
Religious Studies (p. 175)	REL	Philosophy and Humanities
Safety Studies (p. 175)	SAF	Technology
Sculpture (p. 176)	SCL	Art and Design
Social Welfare (p. 183)	SOW	Social Work
Sociology (p. 184)	SOC	Sociology
Spanish (p. 185)	SPA	Modern and Classical Languages
Speech (p. 186)	SPE	Communication
Television Film Arts ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/television-film-arts-minor/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/television-film-arts-minor/</a> )	TFA	Television Film Arts
Theater (p. 191)	THA	Theater
Urban and Regional Planning (p. 192)	PLA	Geography and Planning
Urban Civic Education (p. 192)	UCE	Social and Psychological Foundations of Education
Women and Gender Studies (p. 193)	WGS	Dean's Office, Natural and Social Sciences
Writing (p. 197)	WTG	English

<sup>1</sup> Evening study available.

Major Program	Degree	HEGIS Code	Buffalo St. code	Department
Child Advocacy Studies ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/child-advocacy-certificate/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/child-advocacy-certificate/</a> )	Undergraduate Certificate	0620	UGCT-AS CAS	Psychology
Digital Design and Fabrication ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/digital-design-fabrication-certificate/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/digital-design-fabrication-certificate/</a> )	Undergraduate Certificate	1009	UGCT-AS DDF	Art and Design
Environmental Science and Society ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/environment-science-society-certificate/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/environment-science-society-certificate/</a> )	Undergraduate Certificate	0420	UGCT-AS EVI	School of Arts and Sciences
Fiber Arts (p. 126) Foundations in Theatrical Directing ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/found-theatrical-direct-certificate/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/found-theatrical-direct-certificate/</a> )	Undergraduate Certificate	1009 007	UGCT-AS FIA UGCT-AS TDF	Art and Design Theater
Geographic Information Systems ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/geographic-information-systems-certificate/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/geographic-information-systems-certificate/</a> )	Undergraduate Certificate	2206	UGCT-AS GIS	Geography and Planning
Health Promotion Sciences ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/health-sciences-certificate/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/health-sciences-certificate/</a> )	Undergraduate Certificate	0837	UGCT-SP HPS	Health, Nutrition and Dietetics
Jewelry Arts ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/jewelry-arts-certificate/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/jewelry-arts-certificate/</a> )	Undergraduate Certificate	1009	UGCT-AS MJD	Art and Design
Mathematical Logic ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/mathematical-logic-certificate/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/mathematical-logic-certificate/</a> )	Undergraduate Certificate	0701	UGCT-AS MTL	Philosophy
Sports Communication (p. 187)	Undergraduate Certificate	0601	UGCT-AS SCO	Communication
Statistics In Insurance ( <a href="http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/statistics-in-insurance-certificate/">http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/statistics-in-insurance-certificate/</a> )	Undergraduate Certificate	0702	UGCT-AS STI	Mathematics

Technical Writing Certificate (http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/technical-writing-certificate/)	Undergraduate 1501	UGCT-AS TEW	English
World Languages Advantage (p. 195)	Undergraduate 1501	UGCT-AS WLA	Modern and Classical Languages

Micro-credentials are a cluster of courses that verify, validate, and attest that specific skills and/or competencies have been achieved and are endorsed. SUNY Buffalo State micro-credentials are local and may or may not be transferable to other campuses.

Micro-credential Communication Strategies for Individuals who are Deaf/Hard of Hearing or who have a Disability (http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/comm-strat-deaf-hoh-disability-micro/)	MCCD	Department Speech-Language Pathology
Interior Design-Fundamental Theory & History (http://ecatalog.buffalostate.edu/undergraduate/major-minor-programs/ide-fund-theory-hist-micro/)	MCID	Art and Design

## Africana Studies Minor

AFS

Dean's Office, School of Arts and Sciences  
Rockwell 222  
(716) 878-6329

The Africana Studies minor delineates the roles played by the people of Africa in countries all over the world. People of African descent live not only in the United States, but also in Canada, the Caribbean islands, Europe and South America. The minor deals with contributions made by Africa and the Black Diaspora to the global community. It focuses on Africana studies, which includes African, African American, and Caribbean people and their impact on a broad range of disciplines, including but not limited to: anthropology, art,

history, culture, language and literature, political science, sociology, and gender studies.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (3 credit hours)</b>		
AAS 100	INTRODUCTION TO AFRICANA STUDIES	3
<b>Literature, Arts, and Language (6 credit hours)</b>		
Select two from the following:		6
ENG/AAS 240	AFRICAN AMERICAN LITERATURE TO 1940	
ENG/AAS 241	AFRICAN AMERICAN LITERATURE SINCE 1940	
DAN/AAS 230	DANCE TECHNIQUES FROM THE AFRICAN AMERICAN PERSPECTIVE	
DAN/AAS 234	THE POLITICS OF BLACK DANCE IN AMERICA	
DAN/AAS 250	JAZZ DANCE TECHNIQUE I	
FAR/AAS 380	ART OF AFRICA	
FAR/AAS 366	AFRICAN AMERICAN ART	
FRE 435	FRANCOPHONE AFRICAN LITERATURE IN POST-COLONIAL CONTEXT	
FRE 460	FRANCO-CARIBBEAN LITERATURE, HISTORY & CULTURE	
MUS/AAS 209	SUB-SAHARAN AFRICAN MUSIC AND CULTURES	
MUS 305/AAS 304	MODERN JAZZ	
MUS/AAS 349	WEST AFRICAN DRUMMING ENSEMBLE	
PHI/AAS 360	AFRICANA PHILOSOPHY	
PHI/AAS 361	RACE AND PROGRESS	
THA/AAS 421	DRAMA FROM THE AFRICAN AMERICAN PERSPECTIVE	
<b>Social Sciences and Education (6 credit hours)</b>		
Select two from the following:		6
AAS 343	WHY AFRICA MATTERS	
AAS/ANT 373	"SAVING" AFRICA	
ANT 305/305	PEOPLES OF AFRICA	
CRJ/AAS 425	RACE, ETHNICITY, AND THE ADMINISTRATION OF JUSTICE	
HIS/AAS 306	AFRICA TO 1800	
HIS/AAS 322	AFRICAN AMERICAN HISTORY	
HIS/AAS 337	AFRICA SINCE 1800	



HIS/AAS 341	AFRICAN AMERICANS AND CIVIL RIGHTS	
HIS/AAS 354	THE MODERN CARIBBEAN	
HIS/AAS 468	READINGS IN AFRICAN AMERICAN HISTORY	
HIS/AAS 469	BLACK PROTEST AND LEADERSHIP IN THE UNITED STATES IN THE TWENTIETH CENTURY	
PSC/AAS 218	AFRICAN AMERICAN POLITICAL CULTURE	
PSC/AAS 333	AFRICAN INTERNATIONAL RELATIONS	
SOC/AAS 321	THE AFRICAN AMERICAN FAMILY	
SOC/AAS 351	SOCIOLOGY OF RACE AND ETHNICITY	
SPF/AAS 221	THE HISTORY OF BLACK EDUCATION IN AMERICA	
SPF/AAS 222	THE DEVELOPMENT OF MODERN EDUCATION IN AFRICA	
<b>General Electives (3 credit hours)</b>		
Select one from the following:		3
AAS 189	TOPICS COURSE	
AAS 389	TOPICS IN AFRICANA STUDIES	
AAS 495	SPECIAL PROJECT	
AAS 499	INDEPENDENT STUDY	
Or any class not chosen from Language, Arts and Language or Social Sciences and Education		
<b>Total Credit Hours</b>		<b>18</b>

## Anthropology (B.A.)

BA-AS ANT

### Anthropology Department Bachelor of Arts (HEGIS 2202)

Classroom Building B107  
(716) 878-6110

Anthropology is the exploration of what it means to be human. Although anthropology is often associated with faraway places and remote excavations, anthropologists are increasingly involved in research on such topics as education, health, food, migration, sports, tourism, and cultural identity. The study of anthropology provides a broad-based approach to the understanding of human culture (past and present) and human biology. The anthropological perspective is global, holistic, and involves considerable time-depth. The major exposes students to the primary subdivisions within the field: archaeology, social cultural anthropology, and biological anthropology. The B.A. in anthropology prepares students for further academic training at the graduate level, but can also lead directly to careers in nonacademic (applied) areas, such as forensics, contract archaeology, cultural resource management, museum work, social services, education, government, and market research. Internships, archaeological field schools, and a departmental honors program are available to students in this major.

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Anthropology Major Requirements (39-42 credit hours)</b>		
<i>Required Courses (21 credit hours)</i>		
ANT 100	HUMAN ORIGINS	3
ANT 101	UNDERSTANDING CULTURE	3
ANT 200	EXPLORATIONS IN ANTHROPOLOGY	3
ANT 412	SEMINAR IN CULTURAL ANTHROPOLOGY	3
ANT 415	SEMINAR IN ARCHAEOLOGY	3
ANT 418	SEMINAR IN BIOLOGICAL ANTHROPOLOGY	3
ANT 488	INTERNSHIP IN ANTHROPOLOGY	3
<i>Electives (12-15 credit hours)</i>		
Select one course from each of the following areas:		12-15
<i>Archaeology (3 credit hours)</i>		
ANT 250	HISTORICAL ARCHAEOLOGY <sup>1</sup>	
ANT 310	MESOAMERICAN ARCHAEOLOGY	
ANT 312	ARCHAEOLOGY OF NORTH AMERICA	
ANT 329	WORLD PREHISTORY	
ANT 332	GENDER AND ARCHAEOLOGY	
ANT 377	ANCIENT CIVILIZATION	
<i>Biological Anthropology (3 credit hours)</i>		
ANT 220	CASE STUDIES IN BIOLOGICAL ANTHROPOLOGY <sup>1</sup>	
ANT 321	PRIMATOLOGY	
ANT 323	ANTHROPOLOGY OF DISEASE	
ANT 324	THE HUMAN SKELETON	
ANT 325	FORENSIC ANTHROPOLOGY	
ANT 326	THE HUMAN FOSSIL RECORD	
<i>Regional/Social Cultural/Topical Courses (3 credit hours)</i>		
ANT 300	INDIGENOUS PEOPLES OF WESTERN NORTH AMERICA	
ANT 301	INDIGENOUS PEOPLES OF EASTERN NORTH AMERICA	
ANT 303	THE ANTHROPOLOGY OF EUROPE	
ANT 305	PEOPLES OF AFRICA	
ANT 306	PEOPLES OF ASIA	
ANT 307	URBAN ANTHROPOLOGY	
ANT 327	INTRODUCTION TO MEDICAL ANTHROPOLOGY	
ANT 330	INDIGENOUS HAWAIIANS	
ANT 335	ETHNOPRIMATOLOGY	
ANT 340	WOMEN IN ANTHROPOLOGICAL PERSPECTIVE	

ANT 341	INDIGENOUS ART OF NORTH AMERICA
ANT 350	GLOBAL MARRIAGE PRACTICES
ANT 365	PRACTICING ANTHROPOLOGY
ANT 367	CULTURE AND ECOLOGY
ANT 370	THE ANTHROPOLOGY OF CONTEMPORARY ISSUES
ANT 380	LANGUAGE AND CULTURE
ANT 381	RELIGION, MAGIC, AND CULTURE
ANT 383	ETHNOGRAPHY OF TURKEY
Experiential Courses (3-6 credit hours)	
ANT 308	ARCHAEOLOGICAL METHOD
ANT 315	RESEARCH METHODS IN CULTURAL ANTHROPOLOGY
ANT 322	RESEARCH METHODS IN PRIMATOLOGY
ANT 385	VISUAL ANTHROPOLOGY
ANT 400	ANCIENT MATERIALS
ANT 495	SPECIAL PROJECT
ANT 498	HONORS RESEARCH
ANT 499	INDEPENDENT STUDY
<i>Two Other Courses, From Any Area, Selected by Advisement (6 credit hours)</i>	
Select two courses	6
<b>All College Electives</b>	
45-54 credit hours	45-54
<b>Total Credit Hours</b>	<b>120</b>

<sup>1</sup> Courses listed with <sup>1</sup> may count towards the major requirements if student is also a Forensic Anthropology (ANT 220) or Indigenous Studies (ANT 250) Minor.

Note: ANT 389 may be used to fill one or more of the elective requirements according to content in any given semester. You may take only three ANT 389 courses over the duration of your time at Buffalo State. Please contact your advisor to determine the appropriate designation.

## Anthropology Minor

ANT

### Anthropology Department

Classroom Building B107  
(716) 878-6110

Anthropology is the exploration of what it means to be human. The study of anthropology provides a broad-based approach to the understanding of human culture (past and present) and human biology. The anthropological perspective is global, holistic, and involves considerable time-depth. The minor exposes students to the primary subdivisions within the field: archaeology, cultural anthropology, folklore, linguistics, and biological anthropology. The minor in anthropology can complement all majors, for example in forensic science, social sciences, museum work, social services, education, government, and market research.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (6 credit hours)</b>		
ANT 100	HUMAN ORIGINS	3
ANT 101	UNDERSTANDING CULTURE	3
<b>Electives (12 credit hours)</b>		
One upper division biological anthropology course.		3
One upper division archaeology course.		3
One upper division cultural anthropology course.		3
One of the following:		3
ANT 412	SEMINAR IN CULTURAL ANTHROPOLOGY	
ANT 415	SEMINAR IN ARCHAEOLOGY	
ANT 418	SEMINAR IN BIOLOGICAL ANTHROPOLOGY	
<b>Total Credit Hours</b>		<b>18</b>

## Apparel Construction and Patternmaking Minor

ACP

### Fashion and Textile Technology Department

Technology Building 303  
(716) 878-3478

The 18-credit minor consists of six classes focusing on the techniques and skills required to draft and create original garment designs. This program will introduce students to the processes and technology associated with fashion design as well as the creative and technical considerations of the apparel industry. Students will have the opportunity to design and create their own apparel using different equipment and software programs.

The apparel construction and patternmaking minor creates opportunities for interdisciplinary specialization. For instance, a theater major could look into a career in costume design and development; a fiber arts major could learn how to express their designs in wearable art.

This minor is open to all students not majoring in fashion and textile technology who have completed at least one semester of full-time study at Buffalo State and who are in good academic standing at this institution (2.00 or better G.P.A.). The curriculum is composed of 18 credit hours taken from the fashion and textile technology program and will provide a basic background in the subject area. All of the hours are normally taken at Buffalo State with a maximum of 6 semester hours at the lower division level. A maximum of three courses of transfer credit will be permitted.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (18 credit hours)</b>		
FTT 109	FUNDAMENTALS OF APPAREL CONSTRUCTION	3

FTT 224	PATTERN DRAFTING AND GRADING FOR INDUSTRY	3
FTT 324	INDUSTRIAL APPAREL ASSEMBLY	3
FTT 326	TRADITIONAL/COMPUTER FLAT PATTERN	3
FTT 327	2D/3D COMPUTER PATTERNMAKING	3
FTT 328	APPAREL DESIGN III: DRAPING	3
<b>Total Credit Hours</b>		<b>18</b>

## Art (B.A.)

BA-AS ART

### Art and Design Department Bachelor of Arts (HEGIS 1002)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD)  
Accredited

The Art program provides students with the opportunity to study a wide variety of visual arts media. Together with basic instruction in drawing, design, and art history, students, under advisement, select 24 credit hours in electives in fine arts and/or design (a minimum of 12 credits need to be upper-level).

No entrance portfolio is required for admission of incoming students (including both Freshman and Transfer students) who choose BA-AS ART.

The Art and Design Department reserves the right to retain artwork for official purposes, such as exhibits, catalogs, or teaching aids.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Art Major Requirements (42 credit hours)</b>		
<i>Required Courses (21 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
DES/AAD 103	INTRODUCTION TO THREE-DIMENSIONAL DESIGN	3
FAR/AAD 101	DRAWING I	3
FAR 102	DRAWING II	3
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
FAR 250/ AAD 251	ART HISTORY I	3

FAR 251/ AAD 252	ART HISTORY II	3
<i>Electives in Fine Arts and/or Design</i>		
Select 21 credit hours		21
<b>All College Electives</b>		
39-45 credit hours		39-45
<b>Total Credit Hours</b>		<b>120</b>

## Art Education (PK-12, B.F.A.)

BFA-AS AED

### Art and Design Department Bachelor of Fine Arts (HEGIS 0831)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD)  
Accredited  
Council for the Accreditation of Educator Preparation (CAEP)  
Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The BFA in Art Education program prepares students for initial certification to teach visual arts to pre-kindergarten through grade 12 (PK-12) in New York State schools. The program develops art education professionals who:

- understand contemporary art and culture and are committed to teaching students in meaningful and critical ways.
- consider teaching to be a dynamic and continuing process utilizing current media technology.
- are sensitive to issues of diversity, capable of adapting their teaching strategies to meet individual needs.
- are active in the professional, cultural, and art communities.
- have a depth of experience in at least one art making medium, with a solid breadth in several.

### Requirements of Major

- For students to enroll and remain in the art education program, they must have a minimum GPA of 3.0, as mandated by New York State.
- A portfolio review is required for admission to upper level courses of the program.
- Students complete a total of 12 studio electives beyond the studio foundations courses, including a concentration in at least one studio area. This requires careful advisement to complete courses in a timely manner.
- Students are expected to assume the costs of materials they use in art education courses, and there may be an additional instructional charge for materials used in classes.
- Students are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class.

- Students are responsible for any additional certification requirements established by the New York State Education Department, Teacher Certification Division, including the NYS Teacher Certification Examinations and mandated seminars.
- 100 hours of observation with a certified teacher, as required by New York State, are built into required courses.
- Applicants who do not yet meet all admissions criteria should consult with the AED Program Coordinator..

#### Student Teaching

- Eligibility for student teaching is determined by the Art Education Program.
- Placement is arranged by the Art Education Student Teaching Coordinator.
- Student teaching experiences are provided in cooperating elementary, middle, and high schools.
- Transportation to/from the student teaching assignment is the student's responsibility.
- Students enrolled in the student teaching semester devote full time to their practicum assignment.
- Prior written approval must be obtained from the Art Education Program Coordinator for a student to enroll for any other coursework during a student teaching assignment, except for AED 400: Student Teaching Seminar.

#### Transfer Students

- Students transferring to the art education major should follow the SUNY Fine Arts transfer path.
- Those who wish to complete their programs in a timely manner should plan their schedules of coursework in art education with great care, and with an academic adviser.
- Art teacher certification is a function of the Office of Teaching Initiatives, NYS Education Department, Albany— [higher.nysed.gov/tcert/](http://higher.nysed.gov/tcert/) (<http://www.highered.nysed.gov/tcert/>) For information, contact the Buffalo State Teacher Certification Office— [teachercertification.buffalostate.edu](http://teachercertification.buffalostate.edu) (<http://teachercertification.buffalostate.edu/>)
- Post-baccalaureate (Certification-Only) Program (see below):  
This program is for students who have already earned a B.S./B.A./B.F.A. degree in a studio or visual arts-related area and are interested in earning art teacher initial certification.

#### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Art Education Major Requirements (36 credit hours)</b>		
<i>Required Courses (24 credit hours)</i>		
AED 200	FUNDAMENTALS OF ART INQUIRY	3
AED 300	FOUNDATIONS IN ART EDUCATION	3

AED 301	THEORETICAL CONSTRUCTS IN ART EDUCATION	3
AED 302	FUNCTIONS AND PRACTICE IN ART EDUCATION	3
AED 315	ARTS IN LIVING	3
AED 398	ART, SOCIETY AND NEW MEDIA TECHNOLOGIES FOR ART EDUCATORS	3
AED 400	STUDENT TEACHING SEMINAR	3
ATS 325	ART FOR CHILDREN WITH SPECIAL LEARNING NEEDS	3

#### *Required Field Experience (12 credit hours)*

AED 303	ELEMENTARY STUDENT TEACHING IN ART	6
AED 304	SECONDARY STUDENT TEACHING IN ART	6

#### **Fine Arts and Design Major Requirements (57 credit hours)**

#### *Required Fine Arts Courses (15 credit hours)*

FAR 101	DRAWING I	3
FAR 102	DRAWING II	3
FAR 104	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
FAR 250	ART HISTORY I	3
FAR 251	ART HISTORY II	3

#### *Required Design Courses (6 credit hours)*

DES 101	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
DES 103	INTRODUCTION TO THREE-DIMENSIONAL DESIGN	3

#### *Studio (FAR and DES) Electives Selected By Advisement*

Select 36 credit hours	36
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**Total Credit Hours** **126**

## Art Education (PK-12, PTCP)

Postbaccalaureate Teacher Certification Program

UG-PBC-AS AED

#### **Art and Design Department HEGIS 0831**

Upton Hall 402  
(716) 878-6032

National Council for Accreditation of Teacher Education (NCATE) Accredited  
National Association of Schools of Art and Design (NASAD) Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The Art Education program prepares students for initial certification to teach visual arts in pre-kindergarten through

grade 12 (PK-12) in New York State schools. The program develops art education professionals who:

- understand contemporary art and culture and are committed to teaching students in meaningful and critical ways.
- consider teaching to be a dynamic and continuing process utilizing current media technology.
- are sensitive to issues of diversity and capable of adapting their teaching strategies to meet individual needs.
- are encouraged to be active in their professional, cultural, and art communities.

The Art Education Postbaccalaureate Certification-only Program is a non-degree program designed for students who have earned a baccalaureate degree in fine arts, design, art education (or other arts-related area) from an accredited college or university and are seeking a New York State initial certification to teach visual art. After successfully completing the teacher-certification program and passing required New York State teacher certification exams, students are eligible to apply for New York State initial certification through Buffalo State's Teacher Certification Office [teachercertification.buffalostate.edu](http://teachercertification.buffalostate.edu) (<http://teachercertification.buffalostate.edu/>). No certificate is awarded by Buffalo State. Students are expected to complete the entire sequence of coursework and are responsible for any additional certification requirements established by the New York State Teacher Certification Division, including fingerprinting and several state-mandated seminars. Students in the program may elect to attend part time or full time, yet must attend full time during the student teaching semester. Courses are usually offered during the day to accommodate practical experiences in public schools.

### Advisement

Academic advisers are assigned by the department and must be consulted each semester in order to register for courses and finish in a timely manner. Students remain responsible for fulfilling department and college requirements specific to the program.

### Financial Assistance

For financial aid purposes, students in this program are considered fifth-year undergraduates, eligible for undergraduate loans.

### Admission Requirements

A bachelor's degree in fine arts, design, art education, or other arts-related field from an accredited college or university with a minimum cumulative GPA of 3.0 (4.0 scale). A portfolio review is required, as well as a transcript review of studio and art history courses taken. Students are sometimes required to take additional courses in specific studio areas.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (24 credit hours)</b>		
AED 200	FUNDAMENTALS OF ART INQUIRY	3
AED 300	FOUNDATIONS IN ART EDUCATION	3

AED 301	THEORETICAL CONSTRUCTS IN ART EDUCATION	3
AED 302	FUNCTIONS AND PRACTICE IN ART EDUCATION	3
AED 315	ARTS IN LIVING	3
ATS 325	ART FOR CHILDREN WITH SPECIAL LEARNING NEEDS	3
AED 400	STUDENT TEACHING SEMINAR	3
AED 398	ART, SOCIETY AND NEW MEDIA TECHNOLOGIES FOR ART EDUCATORS	3

### Required Field Experience (12 credit hours)

AED 303	ELEMENTARY STUDENT TEACHING IN ART	6
AED 304	SECONDARY STUDENT TEACHING IN ART	6

**Total Credit Hours** **36**

## Art History (B.A.)

BA-AS ARH

### Art and Design Department Bachelor of Arts (HEGIS 1003)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD) Accredited

The program in Art History is designed to train students in the history and development of art worldwide. Art history, as one of the disciplines in the liberal arts, is envisioned as a foundation for graduate study and for careers in a wide variety of professions. Art history majors are prepared for graduate work in art history, arts administration, museum studies, arts librarianship, visual resource and archive curatorship, historic preservation and art conservation. Buffalo State art history majors who continue their studies on the graduate level may find employment in public and private agencies, libraries, galleries, museums, publishing houses, art dealerships, colleges, arts consultancies, commercial arts organizations and in tourism. It is recommended that art history majors achieve fluency in at least one foreign language before graduating. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Art History Major Requirements (42 credit hours)</b>		
<i>Required Courses (27 credit hours)</i>		
FAR/AAD 101	DRAWING I	3
FAR 104/AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3

FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
Select one Ancient Art course from the following:		3
FAR 351	ART OF THE ANCIENT WORLD	
FAR 353	ART AND CULTURE OF EGYPT AND THE NEAR EAST	
FAR 354	ART AND CULTURE OF GREECE	
FAR 355	ART AND CULTURE OF ROME	
Select one Medieval Art course from the following:		3
FAR 352	ART AND CULTURE OF ISLAM	
FAR 356	EARLY MEDIEVAL ART	
FAR 357	LATE MEDIEVAL ART	
FAR 369	ART OF THE MIDDLE AGES	
Select one Renaissance/Baroque Art course from the following:		3
FAR 358	ITALIAN RENAISSANCE ART, 1200-1480	
FAR 359	HIGH RENAISSANCE AND MANNERISM	
FAR 361	ITALIAN BAROQUE ART	
FAR 367	BAROQUE OF NORTHERN EUROPE	
FAR 373	VENETIAN ART, CULTURE AND ENVIRONMENT	
FAR 469	ART AND ARCHITECTURE IN SIENA	
Select one Modern/Contemporary Art course from the following:		3
FAR 325	HISTORY OF PHOTOGRAPHY	
FAR 362	NINETEENTH-CENTURY ART	
FAR 363	TWENTIETH-CENTURY ART HISTORY	
FAR 364	ART SINCE 1940	
FAR 365	AMERICAN ART I	
Select one Non-Western Art course from the following:		3
FAR 352	ART AND CULTURE OF ISLAM	
FAR 353	ART AND CULTURE OF EGYPT AND THE NEAR EAST	
FAR 375	INTRODUCTION TO ASIAN ART	
FAR 376	INDIAN ART	
FAR 377	ART OF CHINA AND JAPAN	
FAR 380	ART OF AFRICA	
<i>Electives in Art History (15 credit hours)</i>		
Select three from the following:		15
FAR 325	HISTORY OF PHOTOGRAPHY	
FAR 351	ART OF THE ANCIENT WORLD	
FAR 352	ART AND CULTURE OF ISLAM	
FAR 353	ART AND CULTURE OF EGYPT AND THE NEAR EAST	
FAR 354	ART AND CULTURE OF GREECE	
FAR 355	ART AND CULTURE OF ROME	
FAR 356	EARLY MEDIEVAL ART	

FAR 357	LATE MEDIEVAL ART	
FAR 358	ITALIAN RENAISSANCE ART, 1200-1480	
FAR 359	HIGH RENAISSANCE AND MANNERISM	
FAR 361	ITALIAN BAROQUE ART	
FAR 362	NINETEENTH-CENTURY ART	
FAR 363	TWENTIETH-CENTURY ART HISTORY	
FAR 364	ART SINCE 1940	
FAR 365	AMERICAN ART I	
FAR 366	AFRICAN AMERICAN ART	
FAR 367	BAROQUE OF NORTHERN EUROPE	
FAR 369	ART OF THE MIDDLE AGES	
FAR 371	ART CRITICISM AND THEORY	
FAR 372	MASTERWORKS OF ARCHITECTURE	
FAR 373	VENETIAN ART, CULTURE AND ENVIRONMENT	
FAR 374	THE HISTORY AND CULTURE OF ART COLLECTING AND THE PUBLIC MUSEUM	
FAR 375	INTRODUCTION TO ASIAN ART	
FAR 376	INDIAN ART	
FAR 377	ART OF CHINA AND JAPAN	
FAR 380	ART OF AFRICA	
FAR 382	MODERN AND CONTEMPORARY RUSSIAN ART	
FAR 386	ART AND THE EARLY MODERN GLOBAL ENCOUNTER	
FAR 389	TOPICS COURSE	
FAR 471	SENIOR SEMINAR IN ART HISTORY	
FAR 488	INTERNSHIP	
FAR 499	INDEPENDENT STUDY	

#### All College Electives

39-45 credit hours 39-45

**Total Credit Hours 120**

## Art History Minor

ARH

### Art and Design Department

Upton Hall 402  
(716) 878-6032

Recognizing the value of a historical knowledge of the visual arts for students majoring in other disciplines, the Art and Design Department offers an academic minor in art history.

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (21 credit hours)</b>		
FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
Select one course from each of the following five areas:		15
<i>Ancient</i>		
FAR 351	ART OF THE ANCIENT WORLD	
FAR 353	ART AND CULTURE OF EGYPT AND THE NEAR EAST	
FAR 354	ART AND CULTURE OF GREECE	
FAR 355	ART AND CULTURE OF ROME	
<i>Medieval</i>		
FAR 352	ART AND CULTURE OF ISLAM	
FAR 356	EARLY MEDIEVAL ART	
FAR 357	LATE MEDIEVAL ART	
FAR 369	ART OF THE MIDDLE AGES	
<i>Renaissance and Baroque</i>		
FAR 358	ITALIAN RENAISSANCE ART, 1200-1480	
FAR 359	HIGH RENAISSANCE AND MANNERISM	
FAR 361	ITALIAN BAROQUE ART	
FAR 367	BAROQUE OF NORTHERN EUROPE	
FAR 373	VENETIAN ART, CULTURE AND ENVIRONMENT	
FAR 469	ART AND ARCHITECTURE IN SIENA	
<i>Modern/Contemporary Art</i>		
FAR 325	HISTORY OF PHOTOGRAPHY	
FAR 362	NINETEENTH-CENTURY ART	
FAR 363	TWENTIETH-CENTURY ART HISTORY	
FAR 364	ART SINCE 1940	
FAR 365	AMERICAN ART I	
<i>Non-Western Art</i>		
FAR 352	ART AND CULTURE OF ISLAM	
FAR 353	ART AND CULTURE OF EGYPT AND THE NEAR EAST	
FAR 375	INTRODUCTION TO ASIAN ART	
FAR 376	INDIAN ART	
FAR 377	ART OF CHINA AND JAPAN	
FAR 380	ART OF AFRICA	
<b>Total Credit Hours</b>		<b>21</b>

## Art Therapy Minor

ATS

**Art and Design Department**

Upton Hall 402

(716) 878-6032

## About the Program

Art therapy is a mental health profession in which qualified art therapists facilitate client's use of art media, the creative process, and the resulting artwork to explore emotions, resolve conflicts, develop interpersonal skills, manage behaviors, reduce stress, increase self-esteem and self-awareness, and achieve insight. Art therapy is used in individual, group, and family assessment and treatment to improve and enhance the physical, mental, and emotional well-being of individuals of all ages including children, adolescents, adults, and older adults. Art therapists work in a variety of settings such as hospitals, clinics, public and community agencies, schools, wellness centers and private practice.

A master's degree and extensive post-graduate clinical experience are required for entry-level practice in art therapy. The Buffalo State art therapy minor is designed to introduce students to the profession of art therapy. Those students preparing for graduate study will be advised regarding the prerequisite undergraduate coursework required for admission to graduate art therapy programs approved by the American Art Therapy Association, the national professional organization that maintains the standards for education and training leading to the art therapist clinical credential and board certification.

## Admission Requirements

This minor is open to all students who have completed at least one semester of full-time study at Buffalo State and who are in good academic standing (2.00 or better GPA).

Transfer credits: A maximum of 6 transfer credits are accepted toward fulfillment of the minor.

## Program Requirements

The Buffalo State art therapy minor requires 21 credits including three core courses in art therapy and four courses in related prerequisite electives. The following curriculum lists the core and their prerequisite courses.

Please note that prerequisite courses are selected as per advisement with the art therapy advisor. Students should seek faculty advisement prior to registration for each semester they are enrolled in the minor. Students planning on graduate studies in art therapy will be advised to take prerequisite courses that will fulfill graduate entrance requirements.

Other majors—only courses in psychology, exceptional education, and social work may fulfill the prerequisite contingent upon approval of the art therapy minor coordinator. Also note that the minor program of study may contain no more than three courses at the 100 or 200 level.

Code	Title	Credit Hours
<b>Required Core Courses in Art Therapy (9 credit hours)</b>		
ATS 320	INTRODUCTION TO ART AND THERAPY	3
AED 310	ART MEDIA AND METHODS EXPLORATION	3
ATS 325	ART FOR CHILDREN WITH SPECIAL LEARNING NEEDS	3

*Prerequisite Courses for ATS 320 (6 credit hours)*

Select two from the following: 6

PSY 101	INTRODUCTION TO PSYCHOLOGY
PSY 311	PERSONALITY: THEORY AND RESEARCH
PSY 327	ADULT DEVELOPMENT AND AGING I
PSY 340	COGNITIVE PSYCHOLOGY
PSY 355	LIFESPAN DEVELOPMENTAL PSYCHOLOGY
PSY 356	CHILD DEVELOPMENT
PSY 357	ADOLESCENT AND YOUNG ADULT DEVELOPMENT
PSY 388	PSYCHOLOGY OF DEATH AND DYING
SOC 100	INTRODUCTION TO SOCIOLOGY
SOC 320	SOCIOLOGY OF THE FAMILY
SOC 321	THE AFRICAN AMERICAN FAMILY
SOC 370	SOCIOLOGY OF DEVIANT BEHAVIOR
SOC 391	SOCIOLOGY OF ADDICTION
SOC 393	SOCIOLOGY OF MENTAL ILLNESS
SWK 105	INTERPERSONAL RELATIONS
SWK 220	INTRODUCTION TO SOCIAL WORK
SWK 307	HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I
SWK 308	HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II
SWK 335	MENTAL HEALTH AND SOCIAL WORK
SWK 346	CHILD ABUSE AND NEGLECT
SWK 425	SOCIAL WORK WITH FAMILIES

*Prerequisite Courses for AED 310 (3 credit hours)*

Select one from the following: 3

Note: Art History courses do not satisfy this requirement. The course must be studio-based, hands-on art materials and media. Representative course listing below.

AED 100	ESSENTIALS OF VISUAL ARTS
DES 114	WORKSHOP IN CRAFTS
DES 220	CERAMICS I
FAR 101	DRAWING I
FAR 103	MODELING
FAR 210	INTRODUCTORY PAINTING
FAR 240	INTRODUCTORY SCULPTURE

*Prerequisite Courses for ATS (3 credit hours)*

Select one from the following: 3

EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS
EXE 245	COMMUNITY SERVICE WITH INDIVIDUALS WITH SPECIAL NEEDS

SPF 202	CHILD DEVELOPMENT AND EDUCATION
SPF 311	FAMILY VIOLENCE
SPF 353	HUMAN DEVELOPMENT DURING EARLY ADOLESCENCE AND ADOLESCENCE

**Total Credit Hours 21**

## Arts and Letters (B.A.)

BA-AS ALT

### School of Arts and Humanities Bachelor of Arts (HEGIS 4901)

Rockwell Hall 222  
(716) 878-6326

The B.A. degree program in Arts and Letters provides the opportunity to craft a customized major for students who are interested in the study of any of the forms of human expression, creativity, and culture, and whose career/life plans would be served by an academic scope broader than that offered by any single department. Because these graduates leave Buffalo State with communication and interpersonal skills, a sense of aesthetics, critical thinking abilities, attention to detail, and experience working independently or as part of a team, they can develop successful careers in administration, marketing, sales, law, business management, customer relations, human resource management, event planning, cultural tourism, and more. We urge all arts and letters majors to engage in an off-campus internship before graduation to enhance skills and because it is attractive to potential employers.

Students seeking double majors, or second degrees should be aware that Arts and Letters is rarely allowed as a second major or second degree, and only when the disciplines are significantly dissimilar.

### Program Requirements

Code	Title	Credit Hours
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Intellectual Foundations Requirements (p. 58)	33-39 credit hours	33-39
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### Arts and Letters Major Requirements (39 credit hours)

Select a minimum of 21 credit hours upper division  
*Primary Concentration (18 credit hours)*

Courses selected by advisement (at least 9 credit hours in upper division except student teaching) in one of the following areas:	18
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Art Education (with certain limitations)
Communication
Dance
Design
English
Fine Arts
Modern and Classical Languages (not allowing 101-102)
Music



Philosophy and Humanities	
Theater	
<i>Secondary Concentration (9 credit hours)</i>	
Select a second area from list above (at least 3 of the 9 credit hours must be in upper division)	9
<b>Arts and Humanities Courses (9 credit hours)</b>	<b>9</b>
<i>Senior Paper or Project (3 credit hours)</i>	
A capstone experience under the guidance of the faculty adviser, this activity must be approved by the adviser and the topic forwarded to the dean before work is begun.	3
<b>All College Electives</b>	
42-48 credit hours	42-48
<b>Total Credit Hours</b>	<b>120</b>

## Astronomy Minor

AST

### Earth Sciences and Science Education Department

SAMC 160  
(716) 878-6731

The astronomy minor program allows students to expand their interest in outer space and celestial bodies into a richly rewarding, lifelong vocation. This program may provide a Physics student with the initial knowledge base for a career in astronomy or help prepare a student interested in Science Secondary Education for a career in Planetarium Education. The program is supported by the Whitworth Ferguson Planetarium.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (3 credit hours)</b>		
GES 131	INTRODUCTORY ASTRONOMY	3
<b>Electives (15 credit hours)</b>		
Select one of the following options:		15
<i>Elective Option 1</i>		
GES 331	MODERN SOLAR SYSTEM ASTRONOMY	
GES 332	STELLAR AND GALACTIC ASTRONOMY	
GES 335	METHODS OF OBSERVATIONAL ASTRONOMY	
GES 339	ASTRONOMY AND COSMOLOGY	
GES 431	PLANETARIUM SEMINAR	
<i>Elective Option 2</i>		
Three courses from the list above AND an approved sequence in Physics, either PHY 107/PHY 108 (6 credit hours) or PHY 111/PHY 112 (8 credit hours). Note: a single Physics course cannot be applied to the minor.		
<b>Total Credit Hours</b>		<b>18</b>

## Biology (B.A.)

BA-AS BIO

### Biology Department Bachelor of Arts (HEGIS 0401)

SAMC 166  
(716) 878-5203

The B.A. degree program in the biological sciences prepares students for several options, including various employment opportunities at the bachelor's degree level, and entrance to graduate or professional schools.

A departmental honors program is also available. Students should contact the department for additional information.

BIO 111 is the required initial biology course in the program. Students must earn a C or better in BIO 111 to take more advanced biology courses.

### Academic Performance Policy

Students who have a GPA of less than 2.0 in BIO-prefixed courses required for the major at the end of a semester will be placed on departmental probation. Students will then have two semesters to raise their GPA to a 2.0 or greater in BIO-prefixed required courses or they will be dismissed from the department.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
30-33 credit hours		30-33
<b>Biology Major Requirements (40-43 credit hours)</b>		
<i>Required Courses (15 credit hours)</i>		
BIO 111	FOUNDATIONS OF BIOLOGY	3
BIO 211	INTRODUCTION TO CELL BIOLOGY AND GENETICS	4
BIO 213	INTRODUCTION TO ECOLOGY, EVOLUTION, AND BEHAVIOR	4
BIO 333	BIOLOGICAL FORM, FUNCTION AND DIVERSITY	4
<i>Concentration Courses</i>		
Students are required to complete one of the following concentrations:		26-28
<b>Integrative Biology Concentration (26-28 credit hours)</b>		
Select two from the following courses:		
BIO 314	ADVANCED CELL BIOLOGY	
BIO 315	ECOLOGY	
BIO 405	EVOLUTION	
BIO 440	APPLICATIONS IN BIOTECHNOLOGY	
Select 20 credits of elective biology courses at the 300 level or above.		
Electives may include up to 8 credits from BIO 308, BIO 309, BIO 311, and BIO 312		
<i>Excludes BIO 322 and BIO 324</i>		

Up to 9 credits total of BIO 361/362 Biology Seminar, BIO 488 Biology Internship, BIO 495 Special Project, and BIO 499 Independent Study may be applied to the Biology elective requirement. Of this total, no more than 2 cr from BIO 361/362 Biology Seminar and 3 cr from BIO 488 Biology Internship may be used.

**Aquatic Biology Concentration (25-26 credit hours) 25-26**

BIO 300	BIOSTATISTICS
or MAT 3	INTRODUCTORY PROBABILITY AND STATISTICS
BIO 315	ECOLOGY
BIO 405	EVOLUTION
BIO 488	BIOLOGY INTERNSHIP

Select three from the following:

BIO 325	ICHTHYOLOGY
BIO 418	LIMNOLOGY
BIO 429	FISHERIES BIOLOGY
BIO 430	STREAM ECOLOGY

**Total Required Credit Hours in Other Fields (8 credit hours)**

CHE 111 & CHE 113	FUNDAMENTALS OF CHEMISTRY I and LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I
CHE 112 & CHE 114	FUNDAMENTALS OF CHEMISTRY II and LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II

**All College Electives**

21-35 credit hours 21-35

**Total Credit Hours 120**

## Biology Minor

BIO

### Biology Department

SAMC 166  
(716) 878-5203

The Minor in Biology (22 credits) is designed for students majoring in another department who would like to develop an additional focus of study by completing a set of courses in Biology. This option may be appropriate for students in a wide range of fields. Chemistry majors with an interest in biochemistry could profit from more background in cellular and molecular biology. Earth Science majors with an interest in paleobiology could select courses in organismal biology, ecology and evolution. Pre-health students not majoring in Biology can use the Biology Minor as an opportunity to take a coherent set of courses to prepare for entrance exams (e.g. the MCAT). The Biology Minor is also appropriate for students whose major is not in the natural sciences. For example, students interested in careers in technical writing or journalism, or students planning a career as a lawyer

specializing in environmental or biotechnology issues could benefit from a minor in Biology.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (11 credit hours)</b>		
BIO 111	FOUNDATIONS OF BIOLOGY	3
BIO 211	INTRODUCTION TO CELL BIOLOGY AND GENETICS	4
BIO 213	INTRODUCTION TO ECOLOGY, EVOLUTION, AND BEHAVIOR	4
<b>Electives (11 credit hours)</b>		
Eleven additional credits of 300-400 level coursework		11
<b>Total Credit Hours</b>		<b>22</b>

Please note the following restrictions:

1. At least three courses must be taken at Buffalo State.
2. The following cannot be applied to the Biology minor:

Code	Title	Credit Hours
BIO 100	PRINCIPLES OF BIOLOGY	3
BIO 101	HUMAN BIOLOGY	3
BIO 104	ENVIRONMENTAL BIOLOGY	3
BIO 210	MICROBIOLOGY	3

3. Up to 3 credits total of BIO 488 Biology Internship, BIO 495 Special Project, and BIO 499 Independent Study are allowed.
4. A maximum of 1 credit of Biology seminar (BIO 361/BIO 362) is allowed.
5. A maximum of 3 transfer courses (12 credits maximum) will be accepted as part of the Biology minor. The Department Chairperson will judge the acceptability of transfer courses.
6. A student considering the Biology minor should check for prerequisite requirements when planning the program. Prerequisite requirements are listed in the Undergraduate Catalog.

## Business Administration (B.S.)

BS-SP BSA

### Business Department Bachelor of Science (HEGIS 0506)

Chase Hall 322  
(716) 878-4239

The bachelor of science degree in business administration prepares students for leadership roles in management and marketing in both domestic and international business public and nonprofit organizations. During the first two years of the program, students acquire a foundation in accounting and economics, as well as in the arts, humanities, and social and natural sciences. The last two years are devoted to upper-division courses in management, marketing, human resources,

law, finance, operations management, and a capstone course in business strategy. Upon acceptance into the program, students will be required to choose and complete a 15-hour concentration in one of the following areas: management, marketing, or international business.

### Admission Requirements

Transfer students are accepted into the program on a competitive basis. No freshmen are accepted directly into the program. Students interested in business as a major may be admitted as a pre-business major (0424) until completion of entrance requirements. Prior to acceptance into the program, students will be required to attain competency in mathematics, complete CWP 101, CWP 102 and have a minimum cumulative GPA of 2.5.

Transfer students must take all concentration courses, the six hours of upper-division business elective courses, BUS 430, and BUS 460 at Buffalo State College. Business transfer courses with D or less will not be accepted into the major.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39

#### Business Administration Major Requirements (60 credit hours)

<i>Business Core (39 credit hours)</i>		
ECO 201	PRINCIPLES OF MACROECONOMICS	3
ECO 202	PRINCIPLES OF MICROECONOMICS	3
BUS 312	FINANCIAL ACCOUNTING	3
BUS 313	MANAGERIAL ACCOUNTING	3
BUS 320	PRINCIPLES OF MARKETING	3
BUS 324	BUSINESS COMMUNICATION	3
BUS 325	HUMAN RESOURCE MANAGEMENT	3
BUS 334	BUSINESS LAW I	3
BUS 360	PRINCIPLES OF MANAGEMENT	3
FIN 314	CORPORATION FINANCE	3
ECO 305	STATISTICS FOR ECONOMICS	3
or MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS	
BUS 460	OPERATIONS MANAGEMENT	3
BUS 430	STRATEGIC MANAGEMENT	3

<i>Concentration (15 credit hours)</i>		
Select one of the following concentrations:		15

Marketing (p. )		
Management (p. 82)		
International Business (p. 82)		

<i>Business Electives (6 credit hours)</i>		
Any upper-level Business Department course that is not required in the business core or used in your concentration may be taken as a business elective. The department recommends that students meet the business elective requirement through participation in the internship program, BUS 378.		6

#### All College Electives

21-27 credit hours	21-27
<b>Total Credit Hours</b>	<b>120</b>

#### Marketing Concentration

Code	Title	Credit Hours
Select 15 credit hours from the following:		15
BUS 321	MARKETING ON THE INTERNET	
BUS 323	SALES METHODS AND TECHNIQUES	
BUS 327	ADVERTISING CONCEPTS AND PRACTICES	
BUS 329	SALES MANAGEMENT	
BUS 330	MARKETING MANAGEMENT	
BUS 347	RETAIL MANAGEMENT	
BUS 348	ELECTRONIC COMMERCE	
BUS 403	CONSUMER BEHAVIOR	
BUS 404	MARKETING RESEARCH	
BUS 420	INTERNATIONAL MARKETING	
<b>Total Credit Hours</b>		<b>15</b>

#### Management Concentration

Code	Title	Credit Hours
Select 15 credit hours from the following:		15
BUS 300	INTERNATIONAL BUSINESS	
BUS 329	SALES MANAGEMENT	
BUS 335	BUSINESS LAW II	
BUS 347	RETAIL MANAGEMENT	
BUS 350	CURRENT PRACTICES IN BUSINESS TECHNOLOGY	
BUS 364	SUPPLY CHAIN MANAGEMENT	
BUS 365	ENTREPRENEURSHIP	
BUS 366	MANAGEMENT INFORMATION SYSTEMS	
BUS 367	STRATEGIC MANAGEMENT OF INNOVATION AND TECHNOLOGY	
BUS 368	SPORTS MANAGEMENT AND MARKETING	
BUS 369	ORGANIZATIONAL CHANGE AND DEVELOPMENT	
BUS 424	INTERNATIONAL BUSINESS COMMUNICATION	
BUS 473	INTERNATIONAL MANAGEMENT	
<b>Total Credit Hours</b>		<b>15</b>

#### International Business Concentration

Code	Title	Credit Hours
Select 15 credit hours from the following:		15
BUS 300	INTERNATIONAL BUSINESS	
BUS 363	BUSINESS IN THE WESTERN HEMISPHERE	
BUS 417	INTERNATIONAL ACCOUNTING	

BUS 420	INTERNATIONAL MARKETING
BUS 424	INTERNATIONAL BUSINESS COMMUNICATION
BUS 425	INTERNATIONAL AND CROSS-CULTURAL TRAINING
BUS 473	INTERNATIONAL MANAGEMENT
ECO 401	INTERNATIONAL ECONOMICS
FIN 400	INTERNATIONAL FINANCE

**Total Credit Hours** **15**

## Business and Marketing Education (B.S.)

BS-ED BME

**Department of Career and Technical Education  
Bachelor of Science**

Bacon Hall 112  
(716) 878-4717

National Council for Accreditation of Teacher Education (NCATE/CAEP) Accredited

The B.S. degree program in business and marketing education leads to initial certification to teach business and marketing subjects in New York State.

Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this the catalog. Applicants who do not yet meet all admissions criteria should consult with the department.

In this teaching field, applicants for a teaching certificate must also have an equivalent of one year of occupation-related work experience, which they may obtain through the field experience courses as part of the business electives.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Business Major Requirements (30 credit hours)</b>		
BUS 300	INTERNATIONAL BUSINESS	3
BUS 312	FINANCIAL ACCOUNTING	3
BUS 313	MANAGERIAL ACCOUNTING	3
BUS 320	PRINCIPLES OF MARKETING	3
BUS 324	BUSINESS COMMUNICATION	3
BUS 325	HUMAN RESOURCE MANAGEMENT	3
BUS 334	BUSINESS LAW I	3
BUS 350	CURRENT PRACTICES IN BUSINESS TECHNOLOGY	3
BUS 360	PRINCIPLES OF MANAGEMENT	3
BUS 430	STRATEGIC MANAGEMENT	3
<b>Professional Education Major Requirements (33 credit hours)</b>		
CTE 301	FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION	3

CTE 302	CURRICULUM AND EVALUATION IN CAREER AND TECHNICAL EDUCATION	3
CTE 303	INSTRUCTIONAL STRATEGIES IN CAREER AND TECHNICAL EDUCATION	3
CTE 311	CAREER MENTORING	3
CTE 402	ASSESSMENT IN CAREER AND TECHNICAL EDUCATION	3
CTE 404	METHODS OF TEACHING CAREER AND TECHNICAL SUBJECTS	3
BME 415	STUDENT TEACHING IN BUSINESS EDUCATION	6
BME 416	STUDENT TEACHING IN BUSINESS EDUCATION	6
CTE 421	CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS	3

### Required Courses in Other Fields (6 credit hours)

EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3

### All College Electives

12-18 credit hours 12-18

**Total Credit Hours** **120**

## Business and Marketing Education (PTCP)

UG-PBC-ED BME

Postbaccalaureate Teacher Certification Program

**Department of Career and Technical Education  
HEGIS (0838.01)**

Bacon Hall 112  
(716) 878-4717

National Council for Accreditation of Teacher Education (NCATE) Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

This program is for students currently holding a bachelor's degree and/or master's degree and would like to pursue teaching business and marketing education in a secondary school environment in New York State. To be eligible for admission, the following requirements must be satisfied:

1. Completion of a bachelor's or master's degree from an accredited college or university with a concentration of at least 36 credit hours in business and business-related courses, such as computer science and economics, with

a minimum 2.5 GPA. The department will accept up to 6 credits in either CIS and/or economics. All other courses should match the required courses in the business/marketing education major.

2. Provide a résumé.
3. Provide a statement of qualification (essay format).

Note: This program is considered a postbaccalaureate program. Interested students should apply through the Graduate School.

### Program Requirements

Code	Title	Credit Hours
<b>Business Core (36 credit hours)</b>		
Accepted courses per review of Business and Marketing Education Program		36
<b>Professional Core (33 credit hours)</b>		
BME/CTE 301	PRINCIPLES OF BUSINESS/MARKETING AND TECHNOLOGY EDUCATION	3
BME/CTE 302	CURRICULUM AND EVALUATION IN BUSINESS/MARKETING AND TECHNOLOGY EDUCATION	3
BME 303	INSTRUCTIONAL STRATEGIES IN BUSINESS AND MARKETING	3
BME 411/CTE 404	APPLIED TEACHING METHODS IN BUSINESS/MARKETING	3
BME 415	STUDENT TEACHING IN BUSINESS EDUCATION	6
BME 416	STUDENT TEACHING IN BUSINESS EDUCATION	6
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
CTE 421	CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS	3
<b>Total Credit Hours</b>		<b>69</b>

## Business Economics Minor

BEC

### Economics and Finance Department

Classroom Building B207  
(716) 878-4606

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
ECO 201	PRINCIPLES OF MACROECONOMICS	3
ECO 202	PRINCIPLES OF MICROECONOMICS	3

ECO 305	STATISTICS FOR ECONOMICS (May substitute MAT 311)	3
<b>Electives (12 credit hours)</b>		
Select 12 credit hours from the following:		12
ECO 304	MONEY AND BANKING	
ECO 307	INTERMEDIATE MICROECONOMICS	
ECO 308	INTERMEDIATE MACROECONOMICS	
FIN 314	CORPORATION FINANCE	
ECO 320	MANAGERIAL ECONOMICS	
ECO 325	INDUSTRIAL ORGANIZATION	
ECO 350	PUBLIC FINANCE	
ECO 424	ECONOMETRICS	
FIN 345	ESTATE PLANNING	
FIN 370	TECHNICAL ANALYSIS OF FINANCIAL MARKETS	
<b>Total Credit Hours</b>		<b>21</b>

**Important policy reminder:** Current college policy states that a maximum of 3 courses from a student's academic major can be used to fulfill the requirements of a minor. For example, if a Business major earns the credits for the required Business courses of Principles of Macroeconomics, Economic Statistics and Corporation Finance, only THREE of these courses can be used to satisfy the requirements of an Economics Minor.

## Career and Technical Education (B.S.)

*Evening study available*

BS-ED CTE

### Department of Career and Technical Education Bachelor of Science (HEGIS 0839.03)

Bacon Hall 112  
(716) 878-4717

National Council for Accreditation of Teacher Education (NCATE) Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

This program prepares career and technical teachers for teaching positions in city high schools, area vocational schools (BOCES), technical institutes, correctional facilities, and community college technical programs. It provides theoretical and practical preparation in planning, instructing, and managing the learning environment for students who have or will have extensive work experience in agricultural education, business and marketing education, family and consumer sciences subject education, health careers education, technical education, or trade education. Students in career and technical education complete coursework in career and technical education to be recommended for initial certification (grades 712) in New York State in

one of over 83 certification titles. A complete listing of Certification Titles and Codes for Career and Technical Subjects can be found on the New York State Education Department Web site: [http://www.highered.nysed.gov/cert/certificate/careertech\\_certcodes.htm](http://www.highered.nysed.gov/cert/certificate/careertech_certcodes.htm) ([http://www.highered.nysed.gov/cert/certificate/careertech\\_certcodes.htm](http://www.highered.nysed.gov/cert/certificate/careertech_certcodes.htm)).

### Admission Requirements

1. Verified full-time trade experience: four years with high school diploma, or two years with an A.A.S. degree in the occupational area, or one year with a B.S. degree and 36 credit hours of coursework in the occupational area, or a work-study arrangement (see EPOT, below).
2. High school diploma or equivalent: High school students interested in entering the program prior to completing the required work experience may apply for the EPOT program (Early Preparation of Occupational Teachers). Applicants must be able to locate a position in their trade. They will take courses in the evening, leading to a B.S. degree and teacher certification, while learning their trade in a paid position. The program takes about five years to complete.
3. Admission review.
4. Trade proficiency verified by a practical and theoretical examination.
5. Students entering the program must take Buffalo State College's math and English competency exams prior to the completion of 9 hours of college credit.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Major Field (30 credit hours)</b>		
<b>Professional Requirements (36 credit hours)</b>		
TTE 100	COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL SKILLS	15
TTE 200	COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL PERFORMANCE SKILLS	15
CTE 301	FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION	3
CTE 302	CURRICULUM AND EVALUATION IN CAREER AND TECHNICAL EDUCATION	3
CTE 303	INSTRUCTIONAL STRATEGIES IN CAREER AND TECHNICAL EDUCATION	3
CTE 306	CLASSROOM/LABORATORY MANAGEMENT	3
CTE 311	CAREER MENTORING	3
CTE 402	ASSESSMENT IN CAREER AND TECHNICAL EDUCATION	3
CTE 404	METHODS OF TEACHING CAREER AND TECHNICAL SUBJECTS	3

CTE 421	CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS	3
TTE 413	STUDENT TEACHING CAREER AND TECHNICAL EDUCATION	6

### Required Courses in Other Fields (3 credit hours)

SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3

### All College Electives

18-21 credit hours	18-21
<b>Total Credit Hours</b>	<b>120</b>

## Career and Technical Education (PTCP)

*Evening study available*

UG-PBC-ED CTE

### Department of Career and Technical Education Postbaccalaureate Teacher Certification Program (HEGIS 0839.03)

Bacon Hall 112  
(716) 878-4717

National Council for Accreditation of Teacher Education (NCATE) Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

This program is designed for students who have earned a baccalaureate degree in an area other than career and technical education (CTE) from an accredited college or university, and intend to complete the coursework required for New York State certification as a career and technical teacher.

This postbaccalaureate teacher certification program prepares career and technical teachers for positions in high schools, vocational schools, technical institutes, correctional facilities, and community colleges. It provides theoretical and practical preparation in planning, instructing, and managing the learning environment for students who have or will have extensive work experience in a specific trade.

After successfully completing the teacher certification program and passing required New York State teacher certification exams, students are eligible to apply for New York State certification through the Teacher Certification Office, Caudell Hall 101. No degree or certificate is awarded by Buffalo State.

This program is offered during the evening at Buffalo State. Some courses are offered via interactive distance learning at off-campus BOCES sites.

## Financial Assistance

For financial aid purposes, students are considered fifth-year undergraduates, eligible for undergraduate loans.

## Admission Requirements

1. A bachelor's degree from an accredited college or university in an area other than career and technical education, with a minimum cumulative GPA of 2.5 (4.0 scale).
2. Minimum of one year of work experience in a CTE area. In addition, all applicants should review the Admission to a Graduate Program section in this catalog.

## Program Requirements

Code	Title	Credit Hours
<b>Occupational Competency Exams (30 credit hours)</b>		
TTE 100	COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL SKILLS	15
TTE 200	COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL PERFORMANCE SKILLS	15
<b>Required Courses (36 credit hours)</b>		
CTE 301	FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION	3
CTE 302	CURRICULUM AND EVALUATION IN CAREER AND TECHNICAL EDUCATION	3
CTE 306	CLASSROOM/LABORATORY MANAGEMENT	3
CTE 311	CAREER MENTORING	3
CTE 402	ASSESSMENT IN CAREER AND TECHNICAL EDUCATION	3
CTE 404	METHODS OF TEACHING CAREER AND TECHNICAL SUBJECTS	3
CTE 413	STUDENT TEACHING CAREER AND TECHNICAL EDUCATION	6
CTE 421	CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS	3
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
<b>Total Credit Hours</b>		<b>60</b>

## Ceramics (B.F.A.)

BFA-AS CER

### Art and Design Department Bachelor of Fine Arts (HEGIS 1009)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD)  
Accredited

The B.F.A. degree in Ceramics is a studio-intensive program of study that prepares students to produce work of professional competence focusing on mastery of relevant technical skills and creative expression with a strong emphasis on concept, craftsmanship, design, and aesthetics. We offer wheel-throwing, hand-building, mold making, slip-casting, clay and glaze formulation, kiln theory, and studio practice. Our goal is to inspire creativity, conceptual development, and individual expression in both functional and/or sculptural ceramics. This 79-credit hour degree prepares students for advanced studies, graduate studies, or for beginning careers as professional designers or artists. The remaining credit hours are completed in required Intellectual Foundations courses.

## Admission Requirements

There is no entrance portfolio review for admission. All students enter as a Bachelor of Fine Arts (BFA-AH CER) ceramics major and complete a selection of foundation and major courses after which a portfolio review will be conducted for continuation in the B.F.A. ceramics degree program. The portfolio reviews are conducted by the faculty in the program and generally take place during the sophomore year.

To remain in the B.F.A. degree program a 3.0 GPA in the major must be maintained. As a condition of graduation, each B.F.A. student will be required to mount an individual exhibition of his/her work and present a professional portfolio.

Transfer students are urged to submit their portfolios the semester before transfer in order to facilitate placement in departmental courses and/or for possible portfolio review.

For more information about the program, please visit <http://artdesign.buffalostate.edu/ceramics> (<http://artdesign.buffalostate.edu/ceramics/>).

The Art and Design Department reserves the right to retain students' work for official purposes, such as exhibitions, catalogs, teaching aids, or permanent collections, and to use images of the students and their work for publicity and recruitment. Students are expected to assume the costs of materials used in courses. Some studio courses may have an additional charge for materials used in class. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class and the hours gradually increase as the student progresses in the major.

The Art and Design Department may be in the process of curricular revision. Please refer to the college Web site or the department for updated information.

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Ceramics Major Requirements (79 credit hours)</b>		
<i>Foundation Courses (37 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
DES/AAD 103	INTRODUCTION TO THREE-DIMENSIONAL DESIGN	3
FAR/AAD 101	DRAWING I	3

DES 108/ AAD 105	DIGITAL DESIGN AND FABRICATION	3
DES 230	INTRODUCTION TO JEWELRY MAKING	3
DES 242	FIBERS I	3
DES 250	WOOD DESIGN I	3
DES 312	HISTORY OF CRAFT: INDUSTRIAL REVOLUTION TO THE PRESENT	3
DES 414	SENIOR SEMINAR/EXHIBITION	4
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
<i>Major Courses (30 credit hours)</i>		
DES 220	CERAMICS I	3
DES 320	CERAMICS II	3
DES 321	CERAMICS: JUNIOR STUDIO	3-12
DES 421	CERAMICS: SENIOR STUDIO	3-12
FAR 240	INTRODUCTORY SCULPTURE	3
FAR 345	FIGURE MODELING	3
<i>Studio Electives Selected by Advisement (12 credit hours)</i>		
DES 330	APPLIED JEWELRY TECHNIQUES	3
DES 336	METALSMITHING	3
DES 338	COMPUTER THREE- DIMENSIONAL MODELING AND RENDERING	3
DES 342	FIBERS II	3
DES 350	WOOD DESIGN II	3
FAR 341	INTERMEDIATE SCULPTURE I	3
<b>All College Electives</b>		
2-8 credit hours		2-8
<b>Total Credit Hours</b>		<b>120</b>

## Chemistry (B.S.)

BS-AS CHE

### Chemistry Department Bachelor of Science (HEGIS 1905)

SAMC 164  
(716) 878-5204

The chemistry B.S. degree program offers students a strong background in chemistry while providing students with two concentration options, traditional chemistry and biochemistry. Both concentrations are approved by the American Chemical Society. Graduates of this program are fully prepared to assume entry-level positions as chemists with industrial or governmental laboratories, or to begin more specialized programs of study at the graduate level. The biochemistry concentration prepares students for both professional programs in health-related professions and advanced studies in biochemistry.

## Admission Requirements

### Transfer Admission Requirements

Transfer students from two-year colleges should have earned credit for courses equivalent to the following to avoid possible delays in the completion of the degree program.

Code	Title	Credit Hours
CHE 111	FUNDAMENTALS OF CHEMISTRY I	3
CHE 112	FUNDAMENTALS OF CHEMISTRY II	3
CHE 113	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I	1
CHE 114	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II	1
CHE 201	ORGANIC CHEMISTRY I	3
CHE 202	ORGANIC CHEMISTRY II	3
CHE 203	ORGANIC CHEMISTRY LABORATORY I	1
CHE 204	ORGANIC CHEMISTRY LABORATORY II	1
CHE 301	ANALYTICAL CHEMISTRY (recommended)	4
MAT 161	CALCULUS I	4
MAT 162	CALCULUS II	4
PHY 111	UNIVERSITY PHYSICS I	5
PHY 112	UNIVERSITY PHYSICS II	5
BIO 211	INTRODUCTION TO CELL BIOLOGY AND GENETICS (Biology course required for biochemistry concentration only)	4

Transfer students must complete a minimum of 10 credits in chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State only if they have the same or equivalent prerequisites. Grades of C or better in CHE 111 and CHE 112 are required for transfer into the Chemistry B.S. program.

Chemistry courses not meeting these criteria may be transferred as elective credit.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Chemistry Major Requirements (44-48 credit hours)</b>		
<i>Required Courses (28 credit hours)</i>		
CHE 111	FUNDAMENTALS OF CHEMISTRY I	3
CHE 112	FUNDAMENTALS OF CHEMISTRY II	3
CHE 113	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I	1



CHE 114	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II	1
CHE 201	ORGANIC CHEMISTRY I	3
CHE 202	ORGANIC CHEMISTRY II	3
CHE 203	ORGANIC CHEMISTRY LABORATORY I	1
CHE 204	ORGANIC CHEMISTRY LABORATORY II	1
CHE 301	ANALYTICAL CHEMISTRY (recommended)	4
CHE 305	PHYSICAL CHEMISTRY I	3
CHE 306	PHYSICAL CHEMISTRY II	3
CHE 307	PHYSICAL CHEMISTRY LABORATORY I	1
CHE 308	PHYSICAL CHEMISTRY LABORATORY II	1

#### Concentration Courses

Students are required to complete one of the following concentrations: 16-20

#### Chemistry Concentration (17 credit hours)

CHE 310	LITERATURE OF CHEMISTRY	
CHE 360	INTRODUCTION TO INORGANIC CHEMISTRY	
CHE 403	INSTRUMENTAL ANALYSIS	
CHE 404	INSTRUMENTAL ANALYSIS LAB	
CHE 462	ADVANCED INORGANIC CHEMISTRY	
CHE 470	BIOCHEMISTRY I	
CHE 471	BIOCHEMICAL TECHNIQUES	

#### Biochemistry Concentration (20 credit hours)

CHE 310	LITERATURE OF CHEMISTRY	
CHE 360	INTRODUCTION TO INORGANIC CHEMISTRY	
CHE 470	BIOCHEMISTRY I	
CHE 471	BIOCHEMICAL TECHNIQUES	
CHE 472	BIOCHEMISTRY II	

Select two from the following: 8

BIO 303	GENETICS	
BIO 305	MOLECULAR BIOLOGY	
BIO 314	ADVANCED CELL BIOLOGY	
BIO 316	GENERAL MICROBIOLOGY	
BIO 450	RECOMBINANT DNA TECHNOLOGY	
CHE 403 & CHE 404	INSTRUMENTAL ANALYSIS and INSTRUMENTAL ANALYSIS LAB	

#### Required Credit Hours in Other Fields (25-29 credit hours)

MAT 161	CALCULUS I	
BIO 211	INTRODUCTION TO CELL BIOLOGY AND GENETICS	
MAT 162	CALCULUS II	
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	

MAT 263	CALCULUS III	
MAT 264	USING TECHNOLOGY TO EXPLORE CALCULUS III	
PHY 111	UNIVERSITY PHYSICS I	
PHY 112	UNIVERSITY PHYSICS II	

Note: BIO 211 is required only for the biochemistry concentration.

#### All College Electives

4-18 credit hours 4-18

**Total Credit Hours 120**

## Chemistry Minor

CHE

### Chemistry Department

SAMC 164  
(71) 878-5204

All students interested in earning a minor in chemistry must complete one year of general chemistry and at least one semester of organic chemistry with lab. In addition, another eight (8) credit hours must be selected by advisement and in accordance with each student's background and interests. Many chemistry courses have prerequisites, so care must be taken when taking elective courses.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (12 credit hours)</b>		
CHE 111	FUNDAMENTALS OF CHEMISTRY I	3
CHE 112	FUNDAMENTALS OF CHEMISTRY II	3
CHE 113	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I	1
CHE 114	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II	1
CHE 201	ORGANIC CHEMISTRY I	3
CHE 203	ORGANIC CHEMISTRY LABORATORY I	1

or, instead of CHE 201 and CHE 203, a student may substitute: CHE 321

### Electives (8 credit hours)

Select 8 credit hours from the following: 8		
CHE 202	ORGANIC CHEMISTRY II	
CHE 204	ORGANIC CHEMISTRY LABORATORY II	
CHE 301	ANALYTICAL CHEMISTRY	
CHE 310	LITERATURE OF CHEMISTRY	
CHE 315	ENVIRONMENTAL CHEMISTRY AND TECHNOLOGY	
CHE 325	MEDICATIONS	
CHE 331	PRINCIPLES OF PHYSICAL CHEMISTRY	

or CHE 306 PHYSICAL CHEMISTRY I

CHE 306	PHYSICAL CHEMISTRY II
CHE 307	PHYSICAL CHEMISTRY LABORATORY I
CHE 308	PHYSICAL CHEMISTRY LABORATORY II
CHE 322	BIOLOGICAL CHEMISTRY or CHE 471 BIOCHEMISTRY I
CHE 360	INTRODUCTION TO INORGANIC CHEMISTRY
CHE 403	INSTRUMENTAL ANALYSIS
CHE 404	INSTRUMENTAL ANALYSIS LAB
CHE 462	ADVANCED INORGANIC CHEMISTRY
CHE 471	BIOCHEMICAL TECHNIQUES
CHE 472	BIOCHEMISTRY II

**Total Credit Hours** **20**

Transfer students may apply credit taken at another institution up to a maximum of two courses (8 – 10 credits). The Department of Chemistry will be the sole judge of "equivalency."

## Childhood Education (Grades 1–6, B.S.)

BS-ED CED

**Elementary Education, Literacy and Educational Leadership Department**  
**Bachelor of Science (HEGIS 0802)**

Bacon Hall 302  
(716) 878-5916

National Council for Accreditation of Teacher Education (NCATE) Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

### Student Teaching

The program is clinically-rich with carefully designed field experiences that culminate in one full semester of student teaching. The culminating courses vary in placement for the Childhood education majors but usually include two supervised student teaching experiences. Eligibility and placement for each student teaching experience is determined by the department office in cooperation with public schools in the greater Buffalo area. It is expected that students will have at least one urban teaching experience.

Successful Graduates will be recommended for New York State Initial Certification to teach children from first to sixth grade (Childhood, CED).

### Transfer Students

Most courses taken at an accredited institution and relevant to a Buffalo State degree program will be accepted, but the majority of professional sequence courses applied to the

Childhood education major must be courses completed at Buffalo State. Grades for transfer courses are generally used in computing the required 3.0 cumulative GPA for admission to the major. Students planning to transfer as juniors into the Childhood program and wishing to complete their program in four semesters must seek advisement at the institution in which they initially enrolled to assure that the prerequisite course equivalencies are met.

In addition to academic requirements, students are required to complete all seminars specifically required by New York State for program completion and graduation, including School Violence Prevention and Intervention (SAVE); Identification and Reporting of Child Abuse and Maltreatment; Alcohol and Other Drug Avoidance; Fire and Arson Safety; HIV and the Classroom; and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training). The seminar requirements are subject to change.

### Admission Requirements

To be considered for admission to the Childhood education major (CED), students must have an 85% High School average or a cumulative GPA of 3.0, as well as submitted ACT or SAT scores as part of the application process

For students currently enrolled at Buffalo State, an acceptable application to the department includes evidence that the above requirements have been met. Applications to CED are available in Bacon 302. Acceptance into the department enables students to proceed through the curricular courses of their selected major.

Childhood education majors must complete one year of college-level study of one language other than English. Typically, two years of high school study of one language is equivalent to one year of college-level work. Childhood education majors must also complete a distribution requirement of at least 6 credit hours in each of the following areas: mathematics, science, social studies, and English (not including CWP 101 and CWP 102).

Many of the courses in our professional sequence are taught in authentic settings for clinically-rich mentored experiences. As a result, the teacher candidates will have observation, tutoring, and teaching experiences in a variety of placements in our Professional Development Schools Consortium. Childhood education majors are required to complete a 30-credit hour academic concentration in addition to the professional program requirements; the concentration seeks to broaden students' academic backgrounds. Descriptions of the approved concentrations can be found in the Elementary Education Department Handbook for Majors, available on the department Web site, or from the department office. Currently, the concentration may be chosen from: American studies, English, foreign language, Liberal Arts, mathematics, science, social studies or urban studies.

### Program Requirements

Code	Title	Credit Hours
	Intellectual Foundations Requirements (p. )	
	30 credit hours <sup>1</sup>	30
<b>Credit Hours for Concentration</b>		
	30 credit hours	30

## Distribution Courses beyond IF

9 credit hours 9

### Education Major Requirements (54 credit hours)

SPF 202	CHILD DEVELOPMENT AND EDUCATION	3
SPF 203	SCHOOL AND SOCIETY	3
EDU 201	INTRODUCTION TO EDUCATION	3
SPF 302	EDUCATIONAL PSYCHOLOGY: ELEMENTARY EDUCATION	3
EDU 211	INTRODUCTION TO LITERACY	3
EDU 310	TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL	3
EDU 311	THE TEACHING OF READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL	6
EDU 313	TEACHING SCIENCE IN EARLY CHILDHOOD AND CHILDHOOD SETTINGS	3
EDU 316	TEACHING ELEMENTARY SCHOOL MATHEMATICS	6
EXE 362	BEHAVIOR AND CLASSROOM MANAGEMENT	3
EXE 371	FOUNDATIONS OF TEACHING CHILDREN WITH DISABILITIES	3
EDU 400	PRACTICUM IN ELEMENTARY TEACHING I	6
EDU 401	PRACTICUM IN TEACHING: INTERMEDIATE	6
EDU 402	SEMINAR IN EDUCATION	1-3

**Total Credit Hours 123**

<sup>1</sup> Up to 6 general education (IF 14) courses (math/quantitative reasoning, American Civilization, Western Civilization, Non-western Civilization, Humanities, Natural Science, Global and Diversity) may overlap with required major, distribution, and concentration courses. Advisement is strongly encouraged.

*The total number of required hours will vary with course selection. Students should refer to the Elementary Education Handbook and an academic adviser for more detailed information.*

# Childhood Education and English Extension (Grades 1–6 and English 7-9, B.S.)

BS-ED CEN

## Elementary Education, Literacy and Educational Leadership Bachelor of Science (HEGIS 0802)

National Council for Accreditation of Teacher Education (NCATE) Accredited

Bacon Hall 302  
(716) 878-5916

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

## Student Teaching

The program is clinically-rich with carefully designed field experiences that culminate in one full semester of student teaching. The culminating courses for the Childhood with English extension major include two supervised student teaching experiences with children at different age levels in different types of schools. Eligibility and placement for each student teaching experience is determined by the department offices in cooperation with public schools in the greater Buffalo area. It is expected that students in this major will have at least one urban teaching experience.

Graduates in this major will be recommended for New York State Initial Certification to teach children in grades 1–6 and 7-9 English.

## Transfer Students

Most courses taken at an accredited institution and relevant to a Buffalo State degree program will be accepted, but the majority of professional sequence courses applied to the childhood education with English extension major must be courses completed at Buffalo State. Grades for transfer courses are generally used in computing the required 3.0 cumulative GPA for admission to the major. Students planning to transfer as juniors into the Childhood program with English extension and wishing to complete their programs in four or five semesters must seek advisement at the institution in which they initially enrolled to assure that the prerequisite course equivalencies are met. Since graduates in extension programs will receive two certifications, it may require an additional semester of college work.

In addition to academic requirements, students are required to complete all seminars specifically required by New York State for program completion and graduation, including

- School Violence Prevention and Intervention (SAVE);
- Identification and Reporting of Child Abuse and Maltreatment;
- Alcohol and Other Drug Avoidance;
- Fire and Arson Safety;
- HIV and the classroom;
- and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training).

The seminar requirements are subject to change.

## Admission Requirements

To be considered for admission to the Childhood Education with English Extension major (CEN), students must have an 85% High School average or a cumulative GPA of 3.0, as well as submitted Act or SAT scores as part of the application process.

For students currently enrolled at Buffalo State, an acceptable application to the department includes evidence that the above requirements have been met. Applications to CEN are available in Bacon 302. Acceptance into the department

enables students to proceed through the curricular courses of their selected major.

Childhood with English extension education majors must complete one year of college-level study of one language other than English. Typically, two years of high school study of one language is equivalent to one year of college-level work.

Childhood education with English extension majors must also complete a distribution requirement of at least 6 credit hours in each of the following areas: mathematics, science, social studies, and English (not including CWP 101 and CWP 102).

English Extension Majors also complete a 30-credit-hour concentration in English as outlined in the elementary education handbook, available in Bacon 302 and the college website.

Many of the courses in our professional sequence are taught in authentic settings for clinically-rich mentored experiences. As a result, the teacher candidates will have observation, tutoring, and teaching experiences in a variety of placements in our Professional Development Schools Consortium. In addition, English Extension majors will take ENG 463 in the semester prior to student teaching. See the English department for details about course availability and orientations.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
30 credit hours <sup>1</sup>		30
<b>English Concentration</b>		
24-30 credit hours (credits will vary when double dipped with IF and Distribution courses)		24-30
<b>Distribution Courses beyond IF</b>		
9 credit hours		9
<b>Education Major Requirements (60 credit hours)</b>		
SPF 202	CHILD DEVELOPMENT AND EDUCATION	3
SPF 203	SCHOOL AND SOCIETY	3
EDU 201	INTRODUCTION TO EDUCATION	3
SPF 302	EDUCATIONAL PSYCHOLOGY: ELEMENTARY EDUCATION	3
EDU 211	INTRODUCTION TO LITERACY	3
EDU 310	TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL	3
EDU 311	THE TEACHING OF READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL	6
EDU 313	TEACHING SCIENCE IN EARLY CHILDHOOD AND CHILDHOOD SETTINGS	3
EDU 316	TEACHING ELEMENTARY SCHOOL MATHEMATICS	6
EXE 362	BEHAVIOR AND CLASSROOM MANAGEMENT	3
EXE 371	FOUNDATIONS OF TEACHING CHILDREN WITH DISABILITIES	3

ENG 463	METHODS, MATERIALS, AND PROFESSIONAL DEVELOPMENT FOR TEACHERS OF ENGLISH	6
ENG 464	STUDENT TEACHING IN MIDDLE SCHOOL/JUNIOR HIGH SCHOOL ENGLISH	6
EDU 402	SEMINAR IN EDUCATION	1-3
EDU 404	PRACTICUM IN ELEMENTARY TEACHING FOR EX ED & MIDDLE SCHOOL EX STUDENTS	6
<b>Total Credit Hours</b>		<b>123-129</b>

<sup>1</sup> Up to 6 general education (IF 14) courses (math/quantitative reasoning, American Civilization, Natural Science, Humanities, Global and Diversity) may overlap with required courses in the major which could significantly reduce the total number of credit hours required. Advisement is strongly encouraged.

*The total number of required hours will vary with course selection. Students should refer to the Elementary Education Handbook and an academic adviser for more detailed information.*

## Childhood Education and Mathematics Extension (Grades 1–6 and Mathematics 7-9, B.S.)

BS-ED CMT

**Elementary Education, Literacy and Educational Leadership Department**  
**Bachelor of Science (HEGIS 0802)**

Bacon Hall 302  
 (716) 878-5916

National Council for Accreditation of Teacher Education (NCATE) Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

### Student Teaching

The program is clinically-rich with carefully designed field experiences that culminate in one full semester of student teaching. The culminating courses for the Childhood with math extension major include two supervised student teaching experiences with children at different age levels in different types of schools. Eligibility and placement for each student teaching experience is determined by the department office in cooperation with public schools in the greater Buffalo area. It is expected that students in this major will have at least one urban teaching experience.

Graduates in this major will be recommended for New York State Initial Certification to teach children in grades 1–6 and 7-9 mathematics.

### Transfer Students

Most courses taken at an accredited institution and relevant to a Buffalo State degree program will be accepted, but the majority of professional sequence courses applied to the Childhood education with mathematics extension major must be courses completed at Buffalo State. Grades for transfer courses are generally used in computing the required 3.0 cumulative GPA for admission to the major. Students planning to transfer as juniors into the Childhood program with math extension and wishing to complete their programs in four to five semesters must seek advisement at the institution in which they initially enrolled to assure that the prerequisite course equivalencies are met. Since the teacher candidate will graduate with recommendation for two certification areas, extension majors may need an additional semester of college work.

In addition to academic requirements, students are required to complete all seminars specifically required by New York State for program completion and graduation, including

- School Violence Prevention and Intervention (SAVE);
- Identification and Reporting of Child Abuse and Maltreatment;
- Alcohol and Other Drug Avoidance; Fire and Arson Safety;
- HIV and the Classroom; and
- Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training).

The seminar requirements are subject to change.

### Admission Requirements

To be considered for admission to the Childhood Education with Math Extension major (CMT), students must have an 85% High School average or a cumulative GPA of 3.0, as well as submitted ACT or SAT scores as part of the application process.

For students currently enrolled at Buffalo State, an acceptable application to the department includes evidence that the above requirements have been met. Applications to CMT are available in Bacon 302. Acceptance into the department enables students to proceed through the curricular courses of their selected major.

Childhood with math extension education majors must complete one year of college-level study of one language other than English. Typically, two years of high school study of one language is equivalent to one year of college-level work. Childhood education majors must also complete a distribution requirement of at least 6 credit hours in each of the following areas: mathematics, science, social studies, and English (not including CWP 101 and CWP 102).

Many of the courses in our professional sequence are taught in authentic settings for clinically-rich mentored experiences. As a result, the teacher candidates will have observation, tutoring, and teaching experiences in a variety of placements in our Professional Development Schools Consortium. Math extension majors also complete a 30-credit-hour concentration in mathematics as outlined in the elementary education

handbook, available in Bacon 302 and on the Buffalo State website.

In addition, math extension majors will take MED 309, a methods course, in the spring semester prior to their student teaching experience. See the mathematics department for course availability and orientation.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
30 credit hours <sup>1</sup>		30
<b>Math Concentration</b>		
30 credit hours		30
<b>Distribution Courses beyond IF</b>		
9 credit hours		9
<b>Education Major Requirements (57 credit hours)</b>		
SPF 202	CHILD DEVELOPMENT AND EDUCATION	3
SPF 203	SCHOOL AND SOCIETY	3
EDU 201	INTRODUCTION TO EDUCATION	3
SPF 302	EDUCATIONAL PSYCHOLOGY: ELEMENTARY EDUCATION	3
EDU 211	INTRODUCTION TO LITERACY	3
EDU 310	TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL	3
EDU 311	THE TEACHING OF READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL	6
EDU 313	TEACHING SCIENCE IN EARLY CHILDHOOD AND CHILDHOOD SETTINGS	3
EDU 316	TEACHING ELEMENTARY SCHOOL MATHEMATICS	6
EXE 362	BEHAVIOR AND CLASSROOM MANAGEMENT	3
EXE 371	FOUNDATIONS OF TEACHING CHILDREN WITH DISABILITIES	3
MAT 223	ELEMENTARY AND MIDDLE SCHOOL MATHEMATICS FROM AN ADVANCED STANDPOINT	4
MED 309	TEACHING MATHEMATICS IN THE MIDDLE SCHOOL	3
MED 407	STUDENT TEACHING OF MATHEMATICS IN JUNIOR HIGH/MIDDLE SCHOOL	6
EDU 402	SEMINAR IN EDUCATION	1-3
EDU 404	PRACTICUM IN ELEMENTARY TEACHING FOR EX ED & MIDDLE SCHOOL EX STUDENTS	6
<b>Total Credit Hours</b>		<b>126</b>

<sup>1</sup> Up to 6 general education (IF 14) courses (math/quantitative reasoning, American Civilization, Western Civilization, Non-Western Civilization, Humanities, Natural Science, Global and Diversity) may overlap with required courses in the major which could significantly reduce the total number of credit hours required. Advisement is strongly encouraged.

*The total number of required hours will vary with course selection. Students should refer to the Elementary Education Handbook and an academic adviser for more detailed information.*

## Childhood Education and Social Studies Extension (Grades 1–6 Social Studies and 7-9, B.S.)

BS-ED CSS

### Elementary Education, Literacy and Educational Leadership Department Bachelor of Science (HEGIS 0802)

Bacon Hall 302  
(716) 878-5916

National Council for Accreditation of Teacher Education (NCATE) Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

#### Student Teaching

The program is clinically-rich with carefully designed field experiences that culminate in one full semester of student teaching. The culminating courses for the Childhood with social studies extension major include two supervised student teaching experiences with children at different age levels in different types of schools. Eligibility and placement for each student teaching experience is determined by the department office in cooperation with public schools in the greater Buffalo area. It is expected that students in this major will have at least one urban teaching experience.

Graduates in this major will be recommended for New York State Initial Certification to teach children in grades 1–6 and 7-9 social studies.

#### Transfer Students

Most courses taken at an accredited institution and relevant to a Buffalo State degree program will be accepted, but the majority of professional sequence courses applied to the childhood education with social studies major must be courses completed at Buffalo State. Grades for transfer courses are generally used in computing the required 3.0 cumulative GPA for admission to the major. Students planning to transfer as juniors into the Childhood program with social studies extension and wishing to complete their programs in four to five semesters must seek advisement at the institution in

which they initially enrolled to assure that the prerequisite course equivalencies are met. Since the teacher candidate will graduate with recommendation for two certification areas, extension majors may need an additional semester of college work.

In addition to academic requirements, students are required to complete all seminars specifically required by New York State for program completion and graduation, including

- School Violence Prevention and Intervention (SAVE);
- Identification and Reporting of Child Abuse and Maltreatment;
- Alcohol and Other Drug Avoidance;
- Fire and Arson Safety;
- HIV and the Classroom; and
- Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training).

The seminar requirements are subject to change.

#### Admission Requirements

To be considered for admission to the Childhood Education with Social Studies Extension major (CSS), students must have an 85% High School average or a cumulative GPA of 3.0, as well as submitted ACT or SAT scores as part of the application process.

For students currently enrolled at Buffalo State, an acceptable application to the department includes evidence that the above requirements have been met. Applications to CSS are available in Bacon 302. Acceptance into the department enables students to proceed through the curricular courses of their selected major.

Childhood with Social Studies Extension education majors must complete one year of college-level study of one language other than English. Typically, two years of high school study of one language is equivalent to one year of college-level work. Childhood education with social studies extension majors must also complete a distribution requirement of at least 6 credit hours in each of the following areas: mathematics, science, social studies, and English (not including CWP 101 and CWP 102).

Social studies extension majors also complete a 30-credit-hour concentration in social studies as outlined in the elementary education handbook, available in Bacon 302 and on the college website.

Many of the courses in our professional sequence are taught in authentic settings for clinically-rich mentored experiences. As a result, the teacher candidates will have observation, tutoring, and teaching experiences in a variety of placements in our Professional Development Schools Consortium. In addition, social studies extension majors take SSE 303 in the semester prior to student teaching. See the social studies education department for seat availability and orientation.

#### Program Requirements

Code	Title	Credit Hours
	Intellectual Foundations Requirements (p. )	
	30 credit hours <sup>1</sup>	30
<b>Social Studies Concentration</b>		

30 credit hours	30
<b>Distribution Courses beyond IF</b>	
9 credit hours	9
<b>Total Required Credit Hours in Education Major Requirements (57 credit hours)</b>	
SPF 202 CHILD DEVELOPMENT AND EDUCATION	3
SPF 203 SCHOOL AND SOCIETY	3
EDU 201 INTRODUCTION TO EDUCATION	3
SPF 302 EDUCATIONAL PSYCHOLOGY: ELEMENTARY EDUCATION	3
EDU 211 INTRODUCTION TO LITERACY	3
EDU 310 TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL	3
EDU 311 THE TEACHING OF READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL	6
EDU 313 TEACHING SCIENCE IN EARLY CHILDHOOD AND CHILDHOOD SETTINGS	3
EDU 316 TEACHING ELEMENTARY SCHOOL MATHEMATICS	6
EXE 362 BEHAVIOR AND CLASSROOM MANAGEMENT	3
EXE 371 FOUNDATIONS OF TEACHING CHILDREN WITH DISABILITIES	3
SSE 303 METHODS AND MATERIALS IN TEACHING MIDDLE SCHOOL SOCIAL STUDIES	3
SSE 409 STUDENT TEACHING OF SOCIAL STUDIES IN THE MIDDLE SCHOOL	6
EDU 402 SEMINAR IN EDUCATION	1-3
EDU 404 PRACTICUM IN ELEMENTARY TEACHING FOR EX ED & MIDDLE SCHOOL EX STUDENTS	6
<b>Total Credit Hours</b>	<b>126</b>

<sup>1</sup> Up to 6 general education (IF 14) courses (math/quantitative reasoning, American Civilization, Western Civilization, Non-Western Civilization, Humanities, Natural Science, Global and Diversity) may overlap with required courses in the major which could significantly reduce the total number of credit hours required. Advisement is strongly encouraged.

*The total number of required hours will vary with course selection. Students should refer to the Elementary Education Handbook and an academic adviser for more detailed information.*

## Coaching Minor

COA

Health, Nutrition and Dietetics Department

HOUS 202

(716) 878-6501

The coaching minor provides students with the knowledge and skills to coach interscholastic teams. Students may focus their interests in one or more sport specialties. Students who successfully complete the coaching minor also fulfill the New York State Coaching Certification requirements and can then apply for State Certification.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
HPR 126	PRINCIPLES, PHILOSOPHY AND ORGANIZATION OF ATHLETICS IN EDUCATION	3
HPR/HEW 335	PREVENTION AND CARE OF ATHLETIC INJURIES or HEW 310 HEALTH STANDARDS AND EMERGENCY CARE	3
HPR 309	HEALTH SCIENCES FOR COACHING	3
<b>Electives in Coaching (6 credit hours)</b>		
Select three from the following:		6
HPR 202	TECHNIQUES AND THEORIES OF SOCCER	
HPR 203	THEORIES AND TECHNIQUES OF FOOTBALL	
HPR 205	THEORIES AND TECHNIQUES OF TRACK AND FIELD	
HPR 207	TECHNIQUES AND THEORIES OF BASEBALL/SOFTBALL	
HPR 208	TECHNIQUES AND THEORIES OF SWIMMING	
HPR 209	TECHNIQUES AND THEORIES OF BASKETBALL	
<b>Optional Courses in Area Related to Coaching (3 credit hours)</b>		
Select one from the following:		3
HPR/HEW 301	KINESIOLOGY: APPLIED ANATOMY AND BIOMECHANICS	
HPR 319/ SOC 324	SOCIOLOGY OF SPORT	
PSY 325	SOCIAL BEHAVIOR	
HEW 320	PSYCHOACTIVE DRUGS AND HEALTH	
HEW 425	ALCOHOL PROBLEMS	
BUS 368	SPORTS MANAGEMENT AND MARKETING	
COM 392	PUBLIC RELATIONS IN SPORTS	
<b>Total Credit Hours</b>		<b>18</b>

## Communication Studies (B.A.)

BA-AS COM

Communication Department

## Bachelor of Arts (HEGIS 0601)

Buckham B119  
(716) 878-6008

This major allows students much flexibility to tailor a program of theory-based and applied courses. It meets the needs of students preferring a generalist approach to communication, as well as for students seeking a more academic, less applied approach. Compare this major with journalism, media production, and public communication.

### Career Opportunities

Students in Communication Studies prepare for careers in corporate communication, social media management, consulting, government careers, research, media analysis, lobbying, speechwriting, fundraising, event management, and other fields that require a liberal arts education enhanced with communication expertise. The major also provides a base for graduate education in communication, law, management, and other professional areas.

The profile of a successful communication studies graduate is a person with strong writing and speaking proficiency, keen ethical insight, competence in analyzing and thinking critically, and skill in working effectively both independently and in teams.

### Academic Standards

Only grades of C or higher may be applied toward requirements for any communication degree; courses with lower grades must be repeated. Consistent with standards of the Accrediting Council for Education in Journalism and Mass Communication, the number of communication courses that students may take is capped, encouraging a broad-based liberal arts education. The department encourages students to take minors or second majors, and requires evidence of an academic concentration or area of expertise outside the Communication Department.

### Admissions Requirements

Incoming freshman and transfer students can declare the major. A 2.6 in the major is needed to register for certain required upper-division courses (300- and 400-level).

See [communication.buffalostate.edu](http://communication.buffalostate.edu) (<http://communication.buffalostate.edu>) for application forms and additional information, including a list of equivalent core courses at community colleges. Transfer students from two-year schools may apply only core courses toward this major for a maximum of 12 credits. Students generally require four semesters of study after completing communication core courses.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Communication Major Requirements (42 credit hours)</b>		
<i>Communication Core (12 credit hours)</i>		
COM 100	MEDIA LITERACY	3
or SPC 103	INTRODUCTION TO HUMAN COMMUNICATION	

COM 210	INTRODUCTION TO MEDIA WRITING	3
COM 215	INTRODUCTION TO VISUAL COMMUNICATION	3
SPC 205	INTRODUCTION TO ORAL COMMUNICATION	3

Note: Students must have a minimum GPA of 2.6 in the major to register for certain upper-division courses (300- and 400-level)

*Upper-Level Oral Communication Course (3 credit hours)*

Select one from the following:		
SPC 306	PUBLIC SPEAKING	3
SPC 307	GROUP COMMUNICATION	
SPC 315	MEDIA PERFORMANCE	

*Upper-Level Written Communication Course (3 credit hours)*

Select one from the following:		
COM 303	WRITING FOR PRINT AND ONLINE JOURNALISM	3
COM 304	WRITING FOR BROADCAST (TV, RADIO, FILM)	
COM 308	PUBLIC RELATIONS WRITING	
COM 325	FEATURE WRITING	
COM 337	ELECTRONIC NEWS PRODUCING	
COM 390	SPECIAL TOPICS: JOURNALISTIC WRITING	

*Upper-Level Visual Communication Course (3 credit hours)*

Select one from the following:		
COM 312	BASIC MEDIA PRODUCTION	3
COM 322	COMMUNICATION GRAPHICS	
COM 336	WEB AND SOCIAL MEDIA PRODUCTION	

*Communication Theory and Criticism (6 credit hours)*

Select two from the following:		
COM 310	INTERNATIONAL COMMUNICATION	6
COM 327	LITERARY JOURNALISM	
COM 400	COMMUNICATION LAW	
COM 401	APPLIED COMMUNICATION RESEARCH	
COM 410	MASS COMMUNICATION HISTORY	
SPC 309	PERSUASION AND PROPAGANDA	
SPC 311	INTERCULTURAL COMMUNICATION	
SPC 321	RHETORICAL CRITICISM	
SPC 326	FILM ANALYSIS AND EVALUATION	
SPC 333	RACE, CLASS AND GENDER IN THE MEDIA	
SPC 407	ORGANIZATIONAL COMMUNICATION	
SPC 422	MEDIA CRITICISM	



SPC 424	SPECIAL TOPICS IN MEDIA CRITICISM	
SPC 426	DOCUMENTARY FILM ANALYSIS	
<i>Senior Seminar (3 credit hours)</i>		
COM 450	COMMUNICATION AND SOCIETY	3
<i>Communication Electives (12 credit hours)</i>		
Select 12 credit hours:		12
COM 495	SPECIAL PROJECT or COM 4 INDEPENDENT STUDY	
Or 300/400-level COM or SPC electives by advisement		
<b>All College Electives</b>		
39-45 credit hours		39-45
<b>Total Credit Hours</b>		<b>120</b>

## Computer Information Systems (B.S.)

*Evening study available*

BS-SP CIS

### Computer Information Systems Department Bachelor of Science (HEGIS 0702)

Technology Building 203  
(716) 878-5528

The computer information systems program prepares students for entry-level positions, such as programmer, systems analyst, database administration, web programming or network support in the computer field, and provides them with the technical knowledge and managerial skills necessary for a wide range of subsequent career paths. There is a growing demand in all sectors for individuals with this combination of capabilities. This program was developed with the cooperation of employers and information systems professionals and, unlike a computer science program, its emphasis is on commercial applications of computers rather than theory.

### Admission Requirements

Transfer students from parallel A.S. or A.A.S. programs in computer information systems or computer science, and students from nonparallel programs who have completed a programming course equivalent to CIS 151, are accepted directly into the CIS major on a competitive basis providing they have a minimum cumulative GPA of 2.5 and a minimum GPA of 2.0 in major courses from the transfer institution. Freshmen and transfer students who do not meet these requirements for admission to the CIS major are accepted into the CIS premajor (0824) with no special requirements. Premajors are expected to take CIS 151 within three semesters of entering the premajor. Freshmen who have 6 credits of AP computer science can be accepted directly into the CIS major (0825). CIS premajors, undeclared students, and students in other majors at Buffalo State can be admitted to the CIS major when they have

- completed CIS 151 (or an equivalent transfer course) with a minimum grade of C or achieved a minimum GPA of 2.0 in CIS major courses taken at Buffalo State, and
- achieved a minimum cumulative GPA of 2.5 at Buffalo State.

The CIS department is in the process of curricular revision. Please refer to college Web listings or the department for updated information.

### Program Requirements

Code	Title	Credit Hours
<b>Intellectual Foundations</b>		
33-39 credit hours		33-39
<b>Computer Information Systems Major Requirements (42 credit hours)</b>		
<i>Required Courses (24 credit hours)</i>		
CIS 151	COMPUTER-BASED INFORMATION PROCESSING I	3
CIS 361	FUNDAMENTAL CONCEPTS IN OBJECT-ORIENTED PROGRAMMING <sup>1</sup>	3
or CIS 251	COMPUTER-BASED INFORMATION PROCESSING II	
CIS 315	COMPUTER ORGANIZATION	3
CIS 370	SYSTEMS ANALYSIS AND DESIGN	3
CIS 380	MICROCOMPUTER APPLICATIONS	3
CIS 400	VISUAL BASIC PROGRAMMING FOR THE WINDOWS ENVIRONMENT	3
CIS 410	COMPUTER OPERATING SYSTEMS	3
CIS 411	DATABASE SYSTEMS	3
<i>Electives (18 credit hours)</i>		
Select from the following:		18
CIS 375	PROGRAMMING FOR THE INTERNET ENVIRONMENT I	
CIS 388	SERVICE LEARNING IN COMPUTING	
CIS 391	INFORMATION SYSTEMS PROJECT MANAGEMENT	
CIS 405	COMPREHENSIVE COBOL PROGRAMMING	
CIS 413	MULTIMEDIA WEB PROGRAMMING	
CIS 420	DATABASE MANAGEMENT SYSTEMS	
CIS 425	OBJECT-ORIENTED DEVELOPMENT	
CIS 427	E-COMMERCE SYSTEMS AND TECHNOLOGIES	
CIS 435	COMPUTER SEMINAR	
CIS 442	ADVANCED SYSTEMS APPLICATIONS	
CIS 470	DATA COMMUNICATIONS	
CIS 471	NETWORKING LABORATORY I	

CIS 473	ENTERPRISE SYSTEMS DESIGN AND ADMINISTRATION
CIS 475	PROGRAMMING FOR THE INTERNET ENVIRONMENT II
CIS 478	INFORMATION SYSTEM SECURITY
CIS 494	UNDERGRADUATE RESEARCH IN COMPUTING
CIS 495	SPECIAL PROJECT
CIS 499	INDEPENDENT STUDY

In addition to the above courses, one non-CIS course may be taken as an elective with the department chair's permission.

#### Residency Requirements

A minimum of 21 credit hours must be completed in the CIS department at Buffalo State College.

No more than 3 credit hours of CIS 488 may be used to fulfill the CIS elective requirement.

No more than 3 credit hours of CIS elective requirement can be satisfied by credit hours from CIS 495 and CIS 499.

#### All College Electives

39-45 credit hours 39-45

**Total Credit Hours** **120**

<sup>1</sup> Required only for transfer students who have not taken a course in C programming.

## Computer Information Systems Minor

CIS

### Computer Information Systems Department

Technology Building 203  
(716) 878-5528

The Minor in CIS is a good complement to any major whose graduates will interact with computerized information systems. Interested students should take CIS 151, and earn at least a 2.0, before applying for the minor. Students with a 2.0 or better in a transfer course equivalent to CIS 151 can declare the minor at any time.

#### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (6 credit hours)</b>		
CIS 151	COMPUTER-BASED INFORMATION PROCESSING I	3
CIS 251	COMPUTER-BASED INFORMATION PROCESSING II	3
<b>Electives (12 credit hours)</b>		
Select any four upper division CIS courses		12
<b>Total Credit Hours</b>		<b>18</b>

Up to three of the requirements can be satisfied via approved transfer credit.

## Creative Studies Minor

CRS

### Creativity and Change Leadership Department

Chase Hall 244  
(716)878-6223

Today many sources, such as LinkedIn and the World Economic Forum, argue that creativity and creative thinking are among the most crucial workplace skills. Creativity is an effective resource that resides in all people and within all organizations. Our more than 50 years of research has conclusively demonstrated that creativity can be nurtured and enhanced through the use of deliberate tools, techniques, and strategies. Through our undergraduate courses, our students develop essential life skills that they can apply to their personal and professional lives.

Some of the core competencies developed through the undergraduate minor include:

- Expertise in facilitating problem-solving teams
- Enhanced ability to manage diverse groups
- Ability to develop, implement, and support an environment that nurtures creative thinking
- Learn a practical skill set for individual and group problem solving
- Ability to use problem solving tools to define complex problems, to generate creative solutions, and to transform solutions into action
- Learn theories and models for managing and coping with change in a complex world
- Increased effectiveness in decision making
- Sound theoretical base for understanding creativity
- Learn strategies to nurture the creative talent of others
- Enhanced leadership capabilities

#### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (15 credit hours)</b>		
CRS 205	FOUNDATIONS IN CREATIVE THINKING	3
CRS 302	CREATIVE APPROACHES TO PROBLEM SOLVING	3
CRS 303	CREATIVE LEADERSHIP THROUGH EFFECTIVE FACILITATION	3
CRS 304	DEVELOPING CREATIVE PROBLEM-SOLVING FACILITATION SKILLS	3
CRS 320	APPLICATIONS OF CREATIVITY AND INNOVATION	3
<b>Electives (3 credit hours)</b>		
Select 3 credit hours of approved elective		3
<b>Total Credit Hours</b>		<b>18</b>

To apply for the Creative Studies minor or for additional information about these courses, contact Mike Fox.

# Criminal Justice (B.S.)

BS-SP CRJ

## Criminal Justice Department Bachelor of Science (HEGIS 2105)

Classroom Building C114  
(716) 878-4517

The Criminal Justice Department offers concentrations for students who would like to specialize in a particular field of criminal justice. To register for a concentration, please see the Department. Students who do not select a concentration are automatically placed in the integrated concentration that allows students to tailor their major by choosing their supporting and advanced electives to fit their educational and career goals.

### Admission Requirements

Students are not accepted to the criminal justice major during their first semester at Buffalo State. However, students can be admitted as premajors to receive the benefit of departmental information and advisement. A minimum of 12 credit hours of coursework must be completed with a minimum cumulative GPA of 2.5. A student is then eligible to apply for admittance as a criminal justice major. Transfer students from community colleges are accepted based upon their academic average and according to their date of application.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. ) 33-39 credit hours 33-39		
<b>Criminal Justice Major Requirements (42 credit hours)</b>		
<i>Core Courses (18 credit hours)</i>		
CRJ 101	INTRODUCTION TO CRIMINAL JUSTICE	3
CRJ 201	CRIMINAL LAW	3
CRJ 202	THE POLICE PROCESS	3
CRJ 204	THE CORRECTIONAL PROCESS	3
CRJ 303	CRIMINAL JUSTICE THEORY AND IDEOLOGY	3
CRJ 315	RESEARCH METHODS IN CRIMINAL JUSTICE	3
<i>Supporting Courses (6 credit hours)</i>		
Select two from the following: 6		
CRJ 250	INTRODUCTION TO INTELLIGENCE ANALYSIS	
CRJ 301	POLICE ORGANIZATION AND MANAGEMENT	
CRJ 302	CRIMINAL JUSTICE AND THE COMMUNITY	
CRJ 305	THE JUVENILE JUSTICE SYSTEM	
CRJ 306	PROBATION, PAROLE, AND COMMUNITY CORRECTIONS	
CRJ 307	COMPARATIVE CRIMINAL JUSTICE SYSTEM	

CRJ 308	CRIME PREVENTION	
CRJ 317	CONSTITUTIONAL ISSUES IN CRIMINAL JUSTICE	
CRJ 320	CRIMINAL COURTS	
CRJ 355	CRIME ANALYSIS	
<i>Advanced Electives (6 credit hours)</i>		
Select two from the following: 6		
CRJ 402	ADVANCED ADMINISTRATION IN CRIMINAL JUSTICE <sup>1</sup>	
CRJ 404	WHITE-COLLAR AND CORPORATE CRIME	
CRJ 406	CORRECTIONAL INSTITUTIONS AND PROGRAMS	
CRJ 408	PROSEMINAR IN CRIMINAL JUSTICE <sup>2</sup>	
CRJ 409	ADVANCED ISSUES IN LAW ENFORCEMENT	
CRJ 410	ORGANIZED CRIME	
CRJ 420	ADVANCED ISSUES IN PUNISHMENT AND CORRECTIONS	
CRJ 440	DRUGS, CRIME, AND DRUG POLICY	
CRJ 450	TERRORISM AND CRIMINAL JUSTICE	
CRJ 455	ADVANCED INTELLIGENCE ANALYSIS	
CRJ 470	ADVANCED SEMINAR IN CRIMINAL JUSTICE	
CRJ 485	MOCK TRIAL	
CRJ 488	INTERNSHIP IN CRIMINAL JUSTICE <sup>3</sup>	
CRJ 495	SPECIAL PROJECT <sup>4</sup>	
CRJ 499	INDEPENDENT STUDY <sup>4</sup>	
<i>Senior Seminar and Diversity Requirement (3 credit hours)</i>		
Select one from the following:		
CRJ 425	RACE, ETHNICITY, AND THE ADMINISTRATION OF JUSTICE	
CRJ 430	GENDER AND THE ADMINISTRATION OF JUSTICE	
<i>Statistics Core Requirement (3 credit hours)</i>		
Select one from the following: 3		
CRJ 310	STATISTICS IN CRIMINAL JUSTICE	
ECO 305	STATISTICS FOR ECONOMICS	
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS	
PSY 306	STATISTICS IN PSYCHOLOGICAL RESEARCH	
SOC 299	SOCIAL STATISTICS	
<i>Professional, Behavioral, and Social Science Electives (6 credit hours)</i>		
Select two courses from two different departments:		
ANT 325	FORENSIC ANTHROPOLOGY	
BUS 312	FINANCIAL ACCOUNTING	
BUS 334	BUSINESS LAW I	
BUS 360	PRINCIPLES OF MANAGEMENT	

CAS 301	PERSPECTIVES ON CHILD ABUSE AND ADVOCACY	PSY 480	PSYCHOTHERAPY: THEORY, RESEARCH, AND PROCEDURES
CRS 302	CREATIVE APPROACHES TO PROBLEM SOLVING	REL 321	WORLD RELIGIONS
ECO 302	WOMEN IN THE ECONOMY	SAF 305	FUNDAMENTALS OF SAFETY
ECO 312	URBAN ECONOMICS	SAF 310	PERSONAL SAFETY AND FIRST AID
ECO 350	PUBLIC FINANCE	SAF 340	COMMUNITY SAFETY
ECO 360	INTRODUCTION TO THE ECONOMIC ANALYSIS OF LAW	SSE 363	AMERICAN IDENTITY IN TRANSITION: DIVERSITY AND PLURALISM IN THE UNITED STATES
ENG 300	WRITING FOR THE PROFESSIONS	SOC 321	THE AFRICAN AMERICAN FAMILY
ENG 302	TECHNICAL WRITING	SOC 330	SOCIAL PSYCHOLOGY
FOR 312	CHEMISTRY AND CRIMINALISTICS	SOC 340	SOCIOLOGY OF THE CITY
HEW 320	PSYCHOACTIVE DRUGS AND HEALTH	SOC 350	POWER, CLASS, AND INEQUALITY
HEW 425	ALCOHOL PROBLEMS	SOC 351	SOCIOLOGY OF RACE AND ETHNICITY
HIS 311	AMERICAN IMMIGRATION AND EMIGRATION	SOC 353	ENVIRONMENT AND SOCIETY
HIS 322	AFRICAN AMERICAN HISTORY	SOC 370	SOCIOLOGY OF DEVIANT BEHAVIOR
HIS 341	AFRICAN AMERICANS AND CIVIL RIGHTS	SOC 380	SOCIOLOGY OF CRIME
LIB 300	ADVANCED LIBRARY RESEARCH METHODS	SOC 382	SOCIOLOGY OF LAW
PAD 435	ADMINISTRATIVE PRACTICES IN PUBLIC AND NONPROFIT SECTORS	SOC 383	SOCIOLOGY OF PUNISHMENT AND CORRECTIONS
PHI 304	PHILOSOPHY OF LAW	SOC 390	SOCIOLOGY OF JUVENILE DELINQUENCY
PHI 310	HISTORY OF ETHICS	SOC 393	SOCIOLOGY OF MENTAL ILLNESS
PHI 314	RIGHTS AND RESPECT	SPA 201	INTERMEDIATE SPANISH I
PLN 325	MAPS AND MAPMAKING USING GIS	SPC 306	PUBLIC SPEAKING
PLN 380	NEIGHBORHOOD PLANNING AND COMMUNITY DEVELOPMENT	SPC 307	GROUP COMMUNICATON
PSC 305	ENVIRONMENTAL POLICY	SPC 311	INTERCULTURAL COMMUNICATION
PSC 312	LEGISLATIVE PROCESS	SWK 301	POVERTY AND PUBLIC POLICY
PSC 315	STATE AND LOCAL GOVERNMENT AND POLITICS	<b>All College Electives</b>	
PSC 317	U.S. CONSTITUTIONAL LAW	39-45 credit hours 39-45	
PSC 319	GAY, LESBIAN, BISEXUAL, TRANSGENDER, QUESTIONING POLITICS	<b>Total Credit Hours 120</b>	
PSC 320	U.S. CIVIL LIBERTIES	The Criminal Justice Department offers three concentrations for students who would like to specialize in a particular field of criminal justice. To register for a concentration, please see the Department. Students who do not select a concentration are automatically placed in the integrated concentration that allows students to tailor their major by choosing their supporting and advanced electives to fit their educational and career goals.	
PSC 321	CIVIL PROCEDURE	Concentration in Policing	
PSC 345	POLITICS AND HISTORY OF THE MIDDLE EAST	The primary objective of the policing concentration is to provide students with the appropriate foundation for understanding policing issues. It helps prepare students for professional careers in law enforcement available in federal, state, local, or private justice-related organizations.	
PSC 360	PUBLIC ADMINISTRATION		
PSC 364	AMERICAN PUBLIC POLICY		
PSC 421	DISCRIMINATION AND THE U.S. CONSTITUTION		
PSY 325	SOCIAL BEHAVIOR		
PSY 367	ORGANIZATIONAL BEHAVIOR		
PSY 375	FORENSIC PSYCHOLOGY		
PSY 376	HEALTH PSYCHOLOGY		
PSY 392	ABNORMAL PSYCHOLOGY		
PSY 393	ABNORMAL CHILD PSYCHOLOGY		

Code	Title	Credit Hours
Supporting Courses:		
CRJ 301	POLICE ORGANIZATION AND MANAGEMENT	3
CRJ 317	CONSTITUTIONAL ISSUES IN CRIMINAL JUSTICE	3
Advanced Electives:		
CRJ 409	ADVANCED ISSUES IN LAW ENFORCEMENT	3
CRJ 440	DRUGS, CRIME, AND DRUG POLICY	3

#### Concentration in Corrections

The primary objective of the corrections concentration is to enhance students' knowledge of correctional programs, policies, and issues. It helps prepare students for professional careers in institutional or community-based correctional programs available in federal, state, local, or privately-run organizations.

Code	Title	Credit Hours
Supporting Courses:		
CRJ 302	CRIMINAL JUSTICE AND THE COMMUNITY	3
CRJ 306	PROBATION, PAROLE, AND COMMUNITY CORRECTIONS	3
Advanced Electives:		
CRJ 406	CORRECTIONAL INSTITUTIONS AND PROGRAMS	3
CRJ 420	ADVANCED ISSUES IN PUNISHMENT AND CORRECTIONS	3

#### Concentration in Intelligence Analysis

The primary objective of the intelligence analysis concentration is to allow students to develop competency and practical knowledge of intelligence analysis issues and techniques. It helps prepare students for professional careers in intelligence and/or crime analysis in government agencies or law enforcement available in federal, state, or local organizations.

Code	Title	Credit Hours
Supporting Courses:		
CRJ 250	INTRODUCTION TO INTELLIGENCE ANALYSIS	3
CRJ 355	CRIME ANALYSIS	3
Advanced Electives:		
CRJ 450	TERRORISM AND CRIMINAL JUSTICE	3
CRJ 455	ADVANCED INTELLIGENCE ANALYSIS	3

<sup>1</sup> CRJ 402 requires upper division status, CRJ101 & completion of introductory course in public administration, business management, or criminal justice administration.

- <sup>2</sup> CRJ 408 may be taken 3 times as long as 3 different topics are taken. Only two CRJ 408 courses will apply to the CRJ major. If you take more than 3 CRJ 408 courses, the extra courses will be invalid and you will not receive credit.
- <sup>3</sup> CRJ 488 requires senior class standing, a minimum cumulative GPA of 3.0 at Buffalo State and/or Instructor Permission.
- <sup>4</sup> CRJ 495 and CRJ 499 require senior class standing and a minimum cumulative GPA of 3.0 at Buffalo State. No more than one CRJ 499 and/or CRJ 495 course may be used in the major and none may be used in the major if taken prior to successful completion of CRJ 315 without written consent of the department.

## Criminal Justice Minor

CRJ

### Criminal Justice Minor

Classroom Building C114  
(716) 878-4517

The Criminal Justice minor is open to all students not majoring in Criminal Justice who have completed at least one semester of full-time study at Buffalo State College and who are in good academic standing at this institution (2.0 G.P.A. or better). The Criminal Justice Minor is intended to complement the student's major course of study, broaden and enhance career opportunities, and provide expertise in an area of interdisciplinary studies. The curriculum is composed of 18 credit hours taken from the Criminal Justice program and will provide a basic background in the subject area. All of the hours are normally taken at Buffalo State College with a maximum of 6 credit hours at the lower division level. A maximum of three courses of transfer credit will be permitted.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
CRJ 101	INTRODUCTION TO CRIMINAL JUSTICE	3
CRJ 201	CRIMINAL LAW	3
CRJ 303	CRIMINAL JUSTICE THEORY AND IDEOLOGY	3
<b>Electives (9 credit hours)</b>		
Select three from the following:		9
CRJ 302	CRIMINAL JUSTICE AND THE COMMUNITY	
CRJ 305	THE JUVENILE JUSTICE SYSTEM	
CRJ 306	PROBATION, PAROLE, AND COMMUNITY CORRECTIONS	
CRJ 307	COMPARATIVE CRIMINAL JUSTICE SYSTEM	
CRJ 317	CONSTITUTIONAL ISSUES IN CRIMINAL JUSTICE	
CRJ 320	CRIMINAL COURTS	
CRJ 406	CORRECTIONAL INSTITUTIONS AND PROGRAMS	

CRJ 409 ADVANCED ISSUES IN LAW  
ENFORCEMENT

**Total Credit Hours** 18

## Dance Minor

DAN

### Theater Department

Savage Building 222  
(716) 878-6416

Dance at Buffalo State delivers a liberal arts education and embraces a civic and community engagement philosophy in all aspects of the program. In addition to rigorous studio training that enhances the physical experience of the art form, the curricula is designed to deepen students understanding of the cultural, historical, and aesthetic value of dance to our world. Our community-engaged program fulfills our dance students' distinct aspirations while addressing local and global societal needs.

The Bachelor of Arts degree in Arts and Letters with a concentration in dance is an interdisciplinary major that allows students to pursue their particular interests whether that be performance, education, therapy, or community work with dance as the primary course of study. Excellent learning experiences in and out of the classroom develop dance leaders for an increasingly global society.

The dance program also offers a 21-credit-hour minor. The program focuses on the study of dance as art, science, education, and culture. Through studio techniques, theory, history, and composition, students reflect on their own creativity and its aesthetic value, which leads to considering how dance enhances their major, is an expression of culture, and helps to build community.

### Program Requirements

Code	Title	Credit Hours
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#### Required Course (3 credit hours)

DAN 303	DANCE COMPOSITION	3
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*Lower Division Studio Technique (6 credit hours)  
selected by advisement*

Select two from the following:		6
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DAN 200	MODERN DANCE TECHNIQUE I	
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DAN 201	TEACHING CREATIVE MOVEMENT	
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DAN 220	BALLET TECHNIQUE I	
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*Upper Division Studio Technique (3 credit hours)*

Select one from the following:		3
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DAN 302	MODERN DANCE TECHNIQUE II	
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DAN 330	BALLET TECHNIQUE II	
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<b>Electives selected by advisement</b>		<b>9</b>
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Choose 3 lower division and six upper division credit hours or nine upper division credit hours:

DAN 200	MODERN DANCE TECHNIQUE I	
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DAN 201	TEACHING CREATIVE MOVEMENT	
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DAN 214	INTRODUCTION TO DANCE TECHNIQUES	
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DAN 220	BALLET TECHNIQUE I	
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DAN 224	DANCE APPRECIATION	
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DAN/AAS 230	DANCE TECHNIQUES FROM THE AFRICAN AMERICAN PERSPECTIVE	
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DAN/AAS 234	THE POLITICS OF BLACK DANCE IN AMERICA	
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DAN 244	SOCIAL DANCE FORMS	
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DAN 250	JAZZ DANCE TECHNIQUE I	
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DAN 301	KINESTHETIC LEARNING METHODS AND PRACTICES	
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DAN 302	MODERN DANCE TECHNIQUE II	
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DAN 310	DANCE FOR MUSICAL THEATER	
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DAN 312	MODERN DANCE TECHNIQUE III	
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DAN 330	BALLET TECHNIQUE II	
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DAN 340	BALLET TECHNIQUE III	
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DAN 350	TAP DANCE TECHNIQUE I	
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DAN 389	TOPIC COURSE	
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DAN 401	TEACHING DANCE	
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DAN 402	ADVANCED DANCE TECHNIQUES	
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DAN 450	TAP DANCE TECHNIQUE II	
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DAN 495	SPECIAL PROJECT	
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DAN 499	INDEPENDENT STUDY	
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**Total Credit Hours** 21

## Design Minor

DES

### Art and Design Department

Upton Hall 402  
(716) 878-6032

**Ceramics Advisors:** Robert Wood, Upton Hall 129A, (716) 878-4414 woodrl@buffalostate.edu; Colleen Toledano, Upton Hall 130, (716) 878-5154 toledacs@buffalostate.edu

**Fibers Advisor:** Jozef Bajus, Upton Hall 413, (716) 878-4133; bajusj@buffalostate.edu

**Metals/Jewelry:** Tara Nahabetian, Upton Hall 238, (716) 878-4904; Steve Saracino, Upton Hall 236A, (716) 878-4730

**Wood/Furniture Advisor:** Sunhwa Kim, Upton Hall 235C, (716) 878-4768; kims1@buffalostate.edu

The Art and Design Department offers a Minor in four program areas:

- Ceramics
- Fiber/Weaving
- Jewelry/Metal
- Wood/Furniture

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (3 credit hours)</b>		
Select one course from the following with advisement:		3
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	
DES/AAD 103	INTRODUCTION TO THREE-DIMENSIONAL DESIGN	
<b>Electives (18 credit hours)</b>		
Select 18 credits from one of the following programs:		18
<i>Ceramics</i>		
DES 220	CERAMICS I	
DES 320	CERAMICS II	
DES 321	CERAMICS: JUNIOR STUDIO	
DES 421	CERAMICS: SENIOR STUDIO	
<i>Fibers</i>		
DES 242	FIBERS I	
DES 342	FIBERS II	
DES 344	FIBERS: JUNIOR STUDIO	
DES 444	FIBERS: SENIOR STUDIO	
<i>Metals/Jewelry</i>		
DES 230	INTRODUCTION TO JEWELRY MAKING	
DES 330	APPLIED JEWELRY TECHNIQUES	
DES 331	JEWELRY: JUNIOR STUDIO	
DES 431	SENIOR JEWELRY STUDIO	
<i>Wood/Furniture</i>		
DES 250	WOOD DESIGN I	
DES 350	WOOD DESIGN II	
DES 351	WOOD DESIGN: JUNIOR STUDIO	
DES 451	WOOD DESIGN: SENIOR STUDIO	
<b>Total Credit Hours</b>		<b>21</b>

## Deviance Minor

Deviance Minor

DEV

### Sociology Department

Classroom Building B307  
(716) 878-5411

The Minor in Deviance Program introduces students to the sociological analysis of deviance. The program emphasizes courses directly related to deviant behavior and social institutions.

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (6 credit hours)</b>		
SOC 100	INTRODUCTION TO SOCIOLOGY	3
SOC 370	SOCIOLOGY OF DEVIANT BEHAVIOR	3
<b>Deviance Electives (9 credit hours)</b>		
Select 9 credit hours from the following:		9
SOC 380	SOCIOLOGY OF CRIME	
SOC 381	SOCIOLOGY OF VIOLENCE	
SOC 382	SOCIOLOGY OF LAW	
SOC 383	SOCIOLOGY OF PUNISHMENT AND CORRECTIONS	
SOC 390	SOCIOLOGY OF JUVENILE DELINQUENCY	
SOC 392	SOCIOLOGY OF SEXUAL BEHAVIOR	
SOC 393	SOCIOLOGY OF MENTAL ILLNESS	
<b>Sociology Electives (3 credit hours)</b>		
Select 3 credit hours from the following:		3
SOC 240	ANALYZING SOCIAL PROBLEMS	
SOC 330	SOCIAL PSYCHOLOGY	
SOC 340	SOCIOLOGY OF THE CITY	
SOC 350	POWER, CLASS, AND INEQUALITY	
SOC 351	SOCIOLOGY OF RACE AND ETHNICITY	
<b>Total Credit Hours</b>		<b>18</b>

## Didactic Program in Nutrition and Dietetics (B.S.)

BS-SP DIE DID

**Health, Nutrition and Dietetics Department**  
**Bachelor of Science (HEGIS 1306)**

Caudell Hall 334  
(716) 878-5913

SUNY Buffalo State's Didactic Program in Nutrition and Dietetics is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics  
120 South Riverside Plaza, Suite 2190  
Chicago, IL 60606-6995  
(800)877-1600  
<http://eatright.org/ACEND> (<http://eatright.org/ACEND/>)

The program provides students with the academic requirements established by ACEND for entry-level dietitians/nutritionists. Graduates of the program receive a verification statement signed by the DPND program director. Graduates are then eligible to apply for an ACEND-accredited supervised practice program via dietetic internships or individualized supervised practice pathways that are available

throughout the country. After completing the supervised practice requirements, individuals may take the registration examination administered by the Commission on Dietetic Registration. Passing the registration examination earns the credentials of Registered Dietitian/Nutritionist (RDN). Career opportunities are available to dietitians in health facilities, food service organizations, government agencies, and consulting work. Some individuals use this program to prepare for graduate study in nutrition-related areas.

Effective January 1, 2024, the Commission on Dietetic Registration (CDR) will require a minimum of a master's degree to be eligible to take the credentialing exam to become a registered dietitian nutritionist (RDN). In addition, CDR requires that individuals complete coursework and supervised practice in program(s) accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). In most states, graduates also must obtain licensure or certification to practice. Graduates who successfully complete the ACEND-accredited Didactic Program in Nutrition and Dietetics at Buffalo State are eligible to apply to an ACEND-accredited supervised practice program/apply to take the CDR credentialing exam to become an RDN.

### Academic Requirements

All DPND students are required to maintain a cumulative GPA of 2.75 to continue as juniors as defined by the program. DPND student cumulative GPAs will be reviewed prior to starting any DPND junior courses (NFS 401 and/or NFS 330). Students failing to meet the GPA requirement cannot advance in the program until they have met the required GPA and therefore, cannot graduate with a degree in dietetics.

### Admission Requirements

Students are admitted as freshmen or transfers. Transfer students, undeclared students, or students changing majors or desiring a major in this program must have a minimum GPA of 2.75 in previous college credit. Undeclared students or those changing majors to dietetics must fill out a Change of Major form.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Nutrition and Food Service Major Requirements (46 credit hours)</b>		
NFS 100	INTRODUCTION TO FOOD PREPARATION	3
NFS 102	INTRODUCTORY NUTRITION	3
NFS 200	APPLIED FOOD CHEMISTRY	1
NFS 211	APPLIED MANAGEMENT IN DIETETICS I	3
NFS 230	INTRODUCTION TO DIETETICS	2
NFS 302	ADVANCED NUTRITION	3
NFS 311	APPLIED MANAGEMENT IN DIETETICS II	3
NFS 315	LIFE CYCLE AND COMMUNITY NUTRITION I	3
NFS 316	LIFE CYCLE AND COMMUNITY NUTRITION II	3

NFS 330	INTEGRATIVE AND FUNCTIONAL NUTRITION	1
NFS 401	MEDICAL NUTRITIONAL THERAPY I	4
NFS 402	MEDICAL NUTRITIONAL THERAPY II	3
NFS 403	MEDICAL NUTRITIONAL THERAPY III	3
NFS 405	PRINCIPLES OF NUTRITION EDUCATION	2
NFS 430	INTRODUCTION TO NUTRITION RESEARCH	3
NFS 420	DIETETIC EXPERIENCE	3
NFS 495	SPECIAL PROJECT	2
<b>Requirements Outside the Department (37 credit hours)<sup>1</sup></b>		
BIO 100	PRINCIPLES OF BIOLOGY	3
BIO 210	MICROBIOLOGY	3
BIO 308	SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	3
BIO 309	LABORATORY SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	1
CHE 111 & CHE 113	FUNDAMENTALS OF CHEMISTRY I and LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I	4
CHE 112 & CHE 114	FUNDAMENTALS OF CHEMISTRY II and LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II	4
CHE 321	PRINCIPLES OF ORGANIC CHEMISTRY	4
CHE 322	BIOLOGICAL CHEMISTRY	4
CIS 101	COMPUTER FUNDAMENTALS <sup>2</sup>	3
LIB 100	INTRODUCTION TO LIBRARY RESEARCH METHODS <sup>2</sup>	1
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS (or equivalent)	3
PSY 101	INTRODUCTION TO PSYCHOLOGY	3
<b>Total Credit Hours</b>		<b>114-120</b>

<sup>1</sup> Some of these courses meet the Intellectual Foundations requirement.

<sup>2</sup> This course is recommended but not required.

## Dietitian Education Program (B.S.)

BS-SP DIE DEDP

**Health, Nutrition and Dietetics Department**

**Bachelor of Science (HEGIS 1306)**

Caudell Hall 334



SUNY Buffalo State's Dietitian Education Program (DEP), a coordinated program, is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. In 2024, the Commission on Dietetics Registration (CDR) will require a master's degree for the Registered Dietitian Nutritionist credential. In response to this new CDR requirement, the SUNY Buffalo State DEP is being reorganized as the prerequisite degree for the accredited Future Education Model (FEM) graduate program, a competency-based education curriculum. The FEM is currently in the SUNY/State Ed approval process.

Accreditation Council for Education in Nutrition and Dietetics  
120 South Riverside Plaza, Suite 2190  
Chicago, IL 60606-6995  
(800) 877-1600, ext. 5400  
<http://www.eatright.org/ACEND.html>  
<http://www.eatright.org/ACEND/>

The program began in 1971 and had been the only coordinated program in the SUNY system. The program combines theoretical learning with 1000 hours of supervised practice; therefore, the program, in combination with the accredited master's degree, will provide students with the academic and supervised practice requirements established by ACEND for entry-level dietitians/nutritionists. Graduates of the program receive a verification statement signed by the DEP program director. Graduates are then eligible to apply to take the registration examination administered by the Commission on Dietetic Registration. Passing the registration examination earns the credentials of registered dietician (RD) or registered dietitian nutritionist (RDN).

### Admission Requirements

All students with sophomore, junior, or senior status meeting the eligibility requirements must apply for admission to the program during the designated period. Eligibility requirements are admission to Buffalo State, a minimum cumulative GPA of 2.75 and completion of the following prerequisite courses prior to beginning the program in the fall:

Code	Title	Credit Hours
BIO 100	PRINCIPLES OF BIOLOGY	
BIO 308	SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	
BIO 309	LABORATORY SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	
CHE 111	FUNDAMENTALS OF CHEMISTRY I	
CHE 112	FUNDAMENTALS OF CHEMISTRY II	
CHE 113	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I	
CHE 114	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II	

CHE 321	PRINCIPLES OF ORGANIC CHEMISTRY
CHE 322	BIOLOGICAL CHEMISTRY
NFS 100	INTRODUCTION TO FOOD PREPARATION
NFS 102	INTRODUCTORY NUTRITION
NFS 200	APPLIED FOOD CHEMISTRY
NFS 211	APPLIED MANAGEMENT IN DIETETICS I
NFS 230	INTRODUCTION TO DIETETICS
NFS 302	ADVANCED NUTRITION
NFS 315	LIFE CYCLE AND COMMUNITY NUTRITION I
PSY 101	INTRODUCTION TO PSYCHOLOGY

Selection is based on GPA, completion of prerequisite courses, personal statement, faculty interviews, faculty/ employer recommendations, and volunteer/work experience. Up to 16 students are accepted into this program each year.

Individuals interested in applying to the DEP coordinated program must contact the department for application information, which is available by December 1 of each year.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
24 credit hours		24
<b>Didactic Courses Required for the Major</b>		<b>42</b>
<i>Required Courses (40 credit hours)</i>		
NFS 100	INTRODUCTION TO FOOD PREPARATION	3
NFS 102	INTRODUCTORY NUTRITION	3
NFS 200	APPLIED FOOD CHEMISTRY	1
NFS 211	APPLIED MANAGEMENT IN DIETETICS I	3
NFS 230	INTRODUCTION TO DIETETICS	2
NFS 302	ADVANCED NUTRITION	3
NFS 311	APPLIED MANAGEMENT IN DIETETICS II	3
NFS 315	LIFE CYCLE AND COMMUNITY NUTRITION I	3
NFS 316	LIFE CYCLE AND COMMUNITY NUTRITION II	3
NFS 330	INTEGRATIVE AND FUNCTIONAL NUTRITION	1
NFS 401	MEDICAL NUTRITIONAL THERAPY I	4
NFS 402	MEDICAL NUTRITIONAL THERAPY II	3
NFS 403	MEDICAL NUTRITIONAL THERAPY III	3
NFS 405	PRINCIPLES OF NUTRITION EDUCATION	2
NFS 430	INTRODUCTION TO NUTRITION RESEARCH	3
<i>Required Supervised Practice Courses</i>		

To satisfy the clinical requirements of ACEND students are required to take the following courses, which may be substituted for electives.

NFS 445	NUTRITION CARE A	3
NFS 446	NUTRITION CARE B	3
NFS 447	NUTRITION CARE C	5
NFS 448	NUTRITION CARE D	5
NFS 449	NUTRITIONAL CARE E (NUTRITIONAL CARE OF LONG-TERM PATIENTS)	2
NFS 450	SENIOR PRACTICUM IN DIETETICS	4
NFS 451	SPECIALTY PRACTICE	1
NFS 471	EXPERIENCES IN HEALTH CARE FOOD SERVICE SYSTEMS	3

**Requirements Outside the Major (32 credit hours)**

ACEND requires completion of subjects outside nutrition to satisfy academic requirements. Courses meeting these requirements are identified below; they may be taken as electives or used in fulfilling the Intellectual Foundations requirements.

BIO 100	PRINCIPLES OF BIOLOGY	3
BIO 210	MICROBIOLOGY	3
BIO 308	SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	3
BIO 309	LABORATORY SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	1
CHE 111 & CHE 113	FUNDAMENTALS OF CHEMISTRY I and LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I	4
CHE 112 & CHE 114	FUNDAMENTALS OF CHEMISTRY II and LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II	4
CHE 321	PRINCIPLES OF ORGANIC CHEMISTRY	4
CHE 322	BIOLOGICAL CHEMISTRY	4
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS (or equivalent)	3
PSY 101	INTRODUCTION TO PSYCHOLOGY	3

**Total Credit Hours 125**

## Digital Music Production Minor

DMP

**Music Department**

Rockwell Hall 203  
(716) 878-6401

The minor in Digital Music Production is an interdisciplinary program that offers hands-on-experience in the increasingly

relevant field of music technology. It provides students with a comprehensive and up-to-date knowledge of hardware and software tools for electronic music composition, ensemble performance, sound recording and music production. For more information, please contact the DMP minor coordinator and visit [music.buffalostate.edu/digital-music-production-minor/](http://music.buffalostate.edu/digital-music-production-minor/)

**Program Requirements**

Code	Title	Credit Hours
<b>Required Courses (12 credit hours)</b>		
PHY 103	UNDERSTANDING SOUND	3
DMP 221	INTRODUCTION TO SOUND RECORDING AND REINFORCEMENT	3
DMP 350	ELECTRONIC MUSIC COMPOSITION I	3
DMP 491	CAPSTONE IN DIGITAL MUSIC PRODUCTION	3
<b>Electives (9 credit hours)</b>		
Select 9 credit hours from the following:		9
DMP 222	MUSIC BUSINESS	
DMP 321	RECORDING TECHNIQUES	
DMP 331	INTERMEDIATE RECORDING	
DMP 340	HISTORY AND AESTHETIC TRENDS OF ELECTRONIC MUSIC	
DMP 341	ADVANCED RECORDING	
DMP 351	ELECTRONIC MUSIC COMPOSITION II	
DMP 352	SOUND SYNTHESIS	
DMP 360	DIGITAL MUSIC ENSEMBLE	
DMP 431	ADVANCED MIXING TECHNIQUES	
DMP 450	INTERACTIVE COMPUTER MUSIC	
<b>Total Credit Hours</b>		<b>21</b>

## Drafting Technologies for Interior Design Minor

DTD

**Art and Design Department**

Upton Hall 402  
(716) 878-6032

It is often desirable for students of technology, fashion, urban planning, mechanical engineering, business, and so on to pursue a concentrated, but not all-encompassing, study of drafting techniques outside of their major field. With knowledge of manual and computer-aided drafting, along with model making and color rendering, students will have wider professional and academic opportunities available upon graduation. While students may learn computer-aided drafting through online tutorials informally, the formal recognition of a

minor program increases job prospects for the students beyond their major area of study.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (21 credit hours)</b>		
IDE 103	DIGITAL PRESENTATION METHODS	3
IDE 151	MECHANICAL AND PERSPECTIVE DRAWING	3
IDE 204	BUILDING MATERIALS - SELECTION, SPECIFICATIONS, AND ESTIMATING	3
IDE 302	COMPUTER APPLICATIONS FOR INTERIOR DESIGN I	3
IDE 352	COMPUTER APPLICATIONS FOR INTERIOR DESIGN II	3
IDE 403	PROFESSIONAL PRACTICE	3
IDE 488	INTERIOR DESIGN INTERNSHIP	3
<b>Total Credit Hours</b>		<b>21</b>

## Drawing Minor

DRW

### Art and Design Department

Upton Hall 402  
(716) 878-6032

It is often desirable for students to pursue a concentrated, but not all-encompassing, study of an art discipline outside of their major field. This widens the students' perspective, increases their professional and job-related opportunities and enhances qualifications for those planning to pursue a graduate degree, as well as satisfies other personal interests. Some students do this now but receive no formal recognition of their work. This Minor Program in Drawing meets the needs of these students and recognizes their efforts and achievements.

No entrance portfolio is required for admission to the drawing minor program.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (18 credit hours)</b>		
FAR/AAD 101	DRAWING I	3
FAR 102	DRAWING II	3
FAR 230	INTRODUCTORY PRINTMAKING	3
FAR 300	DRAWING III	3
FAR 345	FIGURE MODELING	3
FAR 400	DRAWING IV	3
<b>Total Credit Hours</b>		<b>18</b>

## Early Childhood and Childhood Education, B.S. (Birth - Grade 6, Combined Program)

BS-ED ECC

### Elementary Education, Literacy and Educational Leadership Department Bachelor of Science (HEGIS 0802)

National Council for Accreditation of Teacher Education (NCATE) Accredited  
Bacon Hall 302  
(716) 878-5916

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

### Student Teaching

The program is clinically-rich with carefully designed field experiences that culminate in one full semester of student teaching. The culminating courses for the Combined education majors (ECC) include two supervised student teaching experiences. Eligibility and placement for each student teaching experience is determined by the department office in cooperation with public schools in the greater Buffalo area. It is expected that students in these majors will have at least one urban teaching experience. Successful Graduates will be recommended for New York State Initial Certification to teach children from birth through grade 6 (Combined Childhood and Early Childhood, ECC).

### Transfer Students

Most courses taken at an accredited institution and relevant to a Buffalo State degree program will be accepted, but the majority of professional sequence courses applied to the Combined Childhood and Early Childhood education major must be courses completed at Buffalo State. Grades for transfer courses are generally used in computing the required 3.0 cumulative GPA for admission to the major. Students planning to transfer as juniors into the Combined program and wishing to complete their program in four semesters must seek advisement at the institution in which they initially enrolled to assure that the prerequisite course equivalencies are met.

Since the teacher candidate will graduate with recommendation for two certification areas, Combined majors should anticipate an additional semester of college work.

In addition to academic requirements, students are required to complete all seminars specifically required by New York State for program completion and graduation, including

- School Violence Prevention and Intervention (SAVE);
- Identification and Reporting of Child Abuse and Maltreatment;
- Alcohol and Other Drug Avoidance;
- Fire and Arson Safety;

- HIV and the Classroom; and
- Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training).

The seminar requirements are subject to change.

### Admission Requirements

To be considered for admission to the Combined Childhood and Early Childhood education major (ECC, grades birth-6), students must have an 85% High School average or a cumulative GPA of 3.0, as well as submitted ACT or SAT scores as part of the application process.

For students currently enrolled at Buffalo State, an acceptable application to the department includes evidence that the above requirements have been met. Applications to ECC are available in Bacon 302. Acceptance into the department enables students to proceed through the curricular courses of their selected major.

Combined Childhood and Early Childhood education majors must complete one year of college-level study of one language other than English. Typically, two years of high school study of one language is equivalent to one year of college-level work. Combined education majors must also complete a distribution requirement of at least 6 credit hours in each of the following areas: mathematics, science, social studies, and English (not including CWP 101 and CWP 102).

Many of the courses in our professional sequence are taught in authentic settings for clinically-rich mentored experiences. As a result, the teacher candidates will have observation, tutoring, and teaching experiences in a variety of placements in our Professional Development Schools Consortium.

Combined education majors are required to complete a 30-credit hour academic concentration in addition to the professional program requirements; the concentration seeks to broaden students' academic backgrounds. Descriptions of the approved concentrations can be found in the Elementary Education Department Handbook for Majors, available on the department website, or from the department office. Currently, the concentration may be chosen from: American studies, English, Liberal Arts, foreign language, mathematics, science, social studies or urban studies.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
30 credit hours <sup>1</sup>		30
<b>Concentration Requirements</b>		
21-30 credit hours (credit hours will vary when double dipped with IF and Distribution courses)		21-30
<b>Distribution Courses beyond IF</b>		
9 credit hours		9
<b>Education Major Requirements (69 credit hours)</b>		
SPF 202	CHILD DEVELOPMENT AND EDUCATION	3
SPF 203	SCHOOL AND SOCIETY	3
EDU 201	INTRODUCTION TO EDUCATION	3
SPF 302	EDUCATIONAL PSYCHOLOGY: ELEMENTARY EDUCATION	3

EDU 211	INTRODUCTION TO LITERACY	3
EDU 220	PROGRAMS FOR INFANTS AND TODDLERS	3
EDU 310	TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL	3
EDU 311	THE TEACHING OF READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL	6
EDU 313	TEACHING SCIENCE IN EARLY CHILDHOOD AND CHILDHOOD SETTINGS	3
EDU 316	TEACHING ELEMENTARY SCHOOL MATHEMATICS	6
EDU 329	INTEGRATED THEMATIC INSTRUCTION FOR YOUNG CHILDREN	6
EDU 326	EARLY LITERACY AND LANGUAGE DEVELOPMENT	3
EXE 362	BEHAVIOR AND CLASSROOM MANAGEMENT	3
EXE 371	FOUNDATIONS OF TEACHING CHILDREN WITH DISABILITIES	3
EDU 400	PRACTICUM IN ELEMENTARY TEACHING I	6
EDU 402	SEMINAR IN EDUCATION	1-3
EDU 410	PRACTICUM IN EARLY CHILDHOOD TEACHING	6
EDU 411	PARENTS, SCHOOLS, AND COMMUNITY	3

**Total Credit Hours** **126-138**

<sup>1</sup> Up to 6 general education (IF 14) courses (math/quantitative reasoning, American Civilization, Western Civilization, Non-western Civilization, Humanities/English, Natural Science, Global and Diversity) may overlap with required courses in the major, distribution, and concentration which could significantly reduce the total number of credit hours required. Advisement is strongly encouraged.

*The total number of required hours will vary with course selection. Students should refer to the Elementary Education Handbook and an academic advisor for more detailed information.*

## Early Childhood Education, B.S. (Birth - Grade 2)

BS-ED ECE

**Elementary Education, Literacy and Educational Leadership Department**  
**Bachelor of Science (HEGIS 0823)**

National Council for Accreditation of Teacher Education (NCATE) Accredited

Bacon Hall 302  
 (716) 878-5916

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

## Student Teaching

The program is clinically-rich with carefully designed field experiences that culminate in one full semester of student teaching. The culminating courses for the early childhood education majors may vary, but usually include one or two supervised student teaching experiences. Eligibility and placement for each student teaching experience is determined by the department office in cooperation with public schools in the greater Buffalo area. It is expected that students in these majors will have at least one urban teaching experience.

Successful Graduates will be recommended for New York State Initial Certification to teach children from birth through grade 2 (early childhood, ECE).

## Transfer Students

Most courses taken at an accredited institution and relevant to a Buffalo State degree program will be accepted, but the majority of professional sequence courses applied to the early childhood education major must be courses completed at Buffalo State. Grades for transfer courses are generally used in computing the required 3.0 cumulative GPA for admission to the major. Students planning to transfer as juniors into the early childhood programs and wishing to complete their programs in four semesters must seek advisement at the institution in which they initially enrolled to assure that the prerequisite course equivalencies are met.

In addition to academic requirements, students are required to complete all seminars specifically required by New York State for program completion and graduation, including

- School Violence Prevention and Intervention (SAVE);
- Identification and Reporting of Child Abuse and Maltreatment;
- Alcohol and Other Drug Avoidance;
- Fire and Arson Safety;
- HIV and the Classroom; and
- Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training).

The seminar requirements are subject to change.

## Admission Requirements

To be considered for admission to the early childhood education major (ECE), students must have an 85% High School average or a cumulative GPA of 3.0, as well as submitted ACT or SAT scores as part of the application process.

For student currently enrolled at Buffalo State, an acceptable application to the department includes evidence that the above requirements have been met. Applications to ECE are available in Bacon 302. Acceptance into the department enables students to proceed through the curricular courses of their selected major.

Early Childhood education majors must complete one year of college-level study of one language other than English. Typically, two years of high school study of one language

is equivalent to one year of college-level work. Early childhood education majors must also complete a distribution requirement of at least 6 credit hours in each of the following areas: mathematics, science, social studies, and English (not including CWP 101 and CWP 102).

Many of the courses in our professional sequence are taught in authentic settings for clinically-rich mentored experiences. As a result, the teacher candidates will have observation, tutoring, and teaching experiences in a variety of placements in our Professional Development Schools Consortium. Early childhood education majors are required to complete a 30-credit hour academic concentration in addition to the professional program requirements; the concentration seeks to broaden students' academic backgrounds. Descriptions of the approved concentrations can be found in the Elementary Education Department Handbook for Majors, available on the department website, or from the department office. Currently, the concentration may be chosen from: American studies, English, Liberal Arts, foreign language, mathematics, science, social studies or urban studies.

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
30 credit hours <sup>1</sup>		30
<b>Concentration Requirements</b>		
30 credit hours		30
<b>Distribution Courses Beyond IF</b>		
9 credit hours		9
<b>Education Major Requirements (54 credit hours)</b>		
SPF 202	CHILD DEVELOPMENT AND EDUCATION	3
EDU 201	INTRODUCTION TO EDUCATION	3
SPF 302	EDUCATIONAL PSYCHOLOGY: ELEMENTARY EDUCATION	3
EDU 211	INTRODUCTION TO LITERACY	3
EDU 220	PROGRAMS FOR INFANTS AND TODDLERS	3
EDU 311	THE TEACHING OF READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL	6
EDU 329	INTEGRATED THEMATIC INSTRUCTION FOR YOUNG CHILDREN	6
EDU 326	EARLY LITERACY AND LANGUAGE DEVELOPMENT	3
EXE 362	BEHAVIOR AND CLASSROOM MANAGEMENT	3
EXE 371	FOUNDATIONS OF TEACHING CHILDREN WITH DISABILITIES	3
EDU 375	INTEGRATION OF TECHNOLOGY IN EDUCATION	3
EDU 400	PRACTICUM IN ELEMENTARY TEACHING I	6
EDU 402	SEMINAR IN EDUCATION	1-3
EDU 410	PRACTICUM IN EARLY CHILDHOOD TEACHING	6

EDU 411	PARENTS, SCHOOLS, AND COMMUNITY	3
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**Total Credit Hours 120**

<sup>1</sup> Up to 6 general education (IF 14) courses (math/quantitative reasoning, American Civilization, Western Civilization, Non-western Civilizations, Humanities, Natural Science, Global and Diversity) may overlap with required courses in the major which could reduce the total number of credit hours required. Advisement is strongly encouraged.

*The total number of required hours will vary with course selection. Students should refer to the Elementary Education Department Handbook and an academic adviser for more detailed information.*

## Earth Sciences (B.S.)

BS-AS EAS

### Earth Sciences and Science Education Department Bachelor of Science (HEGIS 1917)

SAMC 160  
(716) 878-6731

The Earth Sciences program offers students the opportunity to develop a broad understanding of the earth as a dynamic, interacting system of land, sea, atmosphere, and solar system. Coursework in chemistry, calculus, and physics are required, but more courses in these areas are expected, particularly for students intent upon careers in the geosciences, or contemplating graduate study.

NOTE: Students seeking New York State Teacher Certification are advised to review the M.S.Ed. in Science Education degree program in the graduate catalog; this program requires completion of an undergraduate degree in a core science prior to admission. The program is designed to enable students to quickly and efficiently develop the knowledge and skills required for teaching and leads to initial NYS certification for those candidates meeting the program admission requirements. Contact the department for advisement on the quick admission and 4+1 pathways available for Buffalo State students.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Earth Science Major Requirements (62-67 credit hours)</b>		<b>62-67</b>
<i>Required Courses (49-50 credit hours)</i>		
Select 6 credit hours from the following (6):		
GES 101	INTRODUCTORY GEOLOGY	
GES 102	HISTORICAL GEOLOGY	
GES 111	OCEANOGRAPHY	
GES 123	ENVIRONMENTAL EARTH SCIENCE	
GES 124	GEOLOGIC HAZARDS	
GES 132	THE SOLAR SYSTEM	

*At least 7 credit hours from the following:*

GES 200	FIRST YEAR GEOLOGY EXPERIENCE
GES 201	PHYSICAL GEOLOGY
GES 202	EARTH AND ENVIRONMENTS THROUGH TIME
All of the following courses (27 credit hours):	
GES 131	INTRODUCTORY ASTRONOMY
GES 241	METEOROLOGY
GES 303	MINERALOGY
GES 306	SEDIMENTOLOGY AND STRATIGRAPHY
GES 307	GEOMORPHOLOGY
GES 408	STRUCTURAL GEOLOGY
GES 418	STRUCTURAL GEOLOGY FIELD EXPERIENCE
GES 428	GEOLOGICAL HAZARDS

Take 6 credit hours of the following:

Upper-division Astronomy (3 credit hours)

GES 323	THIRD- YEAR RESEARCH AND FIELD METHODS EXPERIENCE
GES 452	HYDROGEOLOGY

Select one (3 credit hours)

GES 431	PLANETARIUM SEMINAR
GES 472	GEOLOGY SENIOR SEMINAR

Required Cognate Courses (13-17 credit hours)

CHE 111 & CHE 113	FUNDAMENTALS OF CHEMISTRY I and LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I
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Select one of the following (3-5 credit hours)

PHY 107	GENERAL PHYSICS I
PHY 111	UNIVERSITY PHYSICS I
BIO 104	ENVIRONMENTAL BIOLOGY
BIO 111	FOUNDATIONS OF BIOLOGY
BIO 210	MICROBIOLOGY
BIO 213	INTRODUCTION TO ECOLOGY, EVOLUTION, AND BEHAVIOR

Mathematics (3-5 credit hours)

Choose one of the following:

MAT 124	FUNCTIONS AND MODELING II
MAT 126	APPLIED CALCULUS I
MAT 161/163	CALCULUS I

GIS Course (3 credit hours)

GEG 325	MAPS AND MAPMAKING USING GIS
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**All College Electives**

20-30 credit hours 20-30

**Total Credit Hours 120**

## Economic Policy Analysis Minor

BEC

## Economics and Finance Department

Classroom Building B207  
(716) 878-4606

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
ECO 201	PRINCIPLES OF MACROECONOMICS	3
ECO 202	PRINCIPLES OF MICROECONOMICS	3
ECO 305	STATISTICS FOR ECONOMICS (May substitute MAT 311)	3
<b>Electives (12 credit hours)</b>		
Select 12 credit hours from the following:		12
ECO 301	ECONOMICS OF LABOR RELATIONS	
ECO 302	WOMEN IN THE ECONOMY	
ECO 312	URBAN ECONOMICS	
ECO 325	INDUSTRIAL ORGANIZATION	
ECO 350	PUBLIC FINANCE	
ECO 355	THE ECONOMICS OF ENERGY AND THE ENVIRONMENT	
ECO 403	COMPARATIVE ECONOMIC SYSTEMS	
ECO 404	ECONOMIC DEVELOPMENT	
ECO 411	REGIONAL ECONOMIC ANALYSIS	
<b>Total Credit Hours</b>		<b>21</b>

**Important policy reminder:** Current College policy states that a maximum of 3 courses from a student's academic major can be used to fulfill the requirements of a minor. For example, if a Business major earns the credits for the required Business courses of Principles of Macroeconomics, Economic Statistics and Corporation Finance, only THREE of these courses can be used to satisfy the requirements of an Economics Minor.

## Economics (B.A.)

BA-AS ECO

### Economics and Finance Department Bachelor of Arts (HEGIS 2204)

Classroom Building B207  
(716) 878-4606

The B.A. degree program in economics provides a solid foundation in the basic skills to formulate decisions as consumers, resource owners, and managers in business, government, and nonprofit organizations. This program is designed to prepare students to participate in the global economy by providing a strong focus on the international aspects of economics. Students who choose this program are encouraged to complement the international focus of the program by taking additional courses in history, political science, and geography. In addition to providing preparation for a variety of management positions in business, government and not-for-profits, the program offers an

excellent preparation for graduate work in international business, economics, politics and law.

### Admission Requirements

Transfer or uncommitted students must have a minimum GPA of 2.0 in all previous college credits.

#### Transfer Students

Most courses taken at an accredited institution and relevant to the B.A. degree program will be accepted, but the majority of courses applied to the major must be courses completed at Buffalo State. In most cases, grades for transfer courses will be used in computing the required minimum GPA for admission into the program.

Honors Option for the B.A. Program: An honors designation is available for students who have established high standards of achievement and demonstrated a capacity for independent work. Students should contact the department for information on admission and requirements.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Economics Major Requirements (36 credit hours)</b>		
<i>Required Courses (24 credit hours)</i>		
ECO 201	PRINCIPLES OF MACROECONOMICS	3
ECO 202	PRINCIPLES OF MICROECONOMICS	3
ECO 305	STATISTICS FOR ECONOMICS	3
ECO 307	INTERMEDIATE MICROECONOMICS	3
ECO 308	INTERMEDIATE MACROECONOMICS	3
ECO 405	HISTORY OF ECONOMIC THOUGHT	3
ECO 490	SENIOR SEMINAR	3
Select at least one course from the following:		3
ECO 401	INTERNATIONAL ECONOMICS	
ECO 403	COMPARATIVE ECONOMIC SYSTEMS	
ECO 404	ECONOMIC DEVELOPMENT	
FIN 400	INTERNATIONAL FINANCE	
<i>Economics Electives Selected by Advisement</i>		
12 credit hours <sup>1</sup>		12
<b>All College Electives</b>		
33-45 credit hours		33-45
It is strongly recommended that students who plan to pursue a Ph.D. in economics also complete, as a minimum, MAT 161, MAT 162, and MAT 202.		
<b>Total Credit Hours</b>		<b>120</b>

<sup>1</sup> Only 3 hours of ECO 488, ECO 495, or ECO 499 may be included.

# Economics (B.S.)

BS-AS ECO

## Economics and Finance Department Bachelor of Science (HEGIS 2204)

Classroom Building B207  
(716) 878-4606

The B.S. degree program in economics provides a solid foundation in the basic skills and analytical techniques that are necessary to understand changes in the broad economic environment and be able to formulate decisions as consumers, resource owners, and managerial personnel in business, government, and nonprofit organizations. Students choose a concentration in either applied economics or financial economics and complete additional required courses and specialized electives. Both concentrations prepare students for entry-level management positions in business, government, and nonprofit organizations, and provide excellent preparation for graduate work in business administration, economics, and law. Financial economics is the rigorous study of financial markets (bonds, derivatives, swaps, and equities) and their related institutions.

### Transfer Students

Most courses taken at an accredited institution and relevant to the B.S. degree program will be accepted, but the majority of courses applied to the major must be courses completed at Buffalo State. In most cases, grades for transfer courses will be used in computing the required GPA for admission into the program.

### Admission Requirements

Transfer or uncommitted students must have a minimum GPA of 2.0 in previous college credits.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. 111)		
33-39 credit hours		33-39
<b>Economics Major Requirements (39-45 credit hours)</b>		
<i>Required Courses (27 credit hours)</i>		
BUS 312	FINANCIAL ACCOUNTING	3
ECO 201	PRINCIPLES OF MACROECONOMICS	3
ECO 202	PRINCIPLES OF MICROECONOMICS	3
ECO 305	STATISTICS FOR ECONOMICS	3
ECO 307	INTERMEDIATE MICROECONOMICS	3
ECO 308	INTERMEDIATE MACROECONOMICS	3
ECO 424	ECONOMETRICS	3
ECO 490	SENIOR SEMINAR	3
MAT 126	APPLIED CALCULUS I	4
	or MAT 161 CALCULUS I	
<i>Concentrations (12-18 credit hours)</i>		
Select one of the following concentrations: <sup>1</sup>		12-18

Applied Economics Concentration (p. 111)	
Financial Economics Concentration (p. 112)	
<b>All College Electives</b>	
36-48 credit hours	36-48
<b>Total Credit Hours</b>	<b>120</b>

It is strongly recommended that students who plan to pursue a Ph.D. in economics also complete, as a minimum, MAT 161, MAT 162, and MAT 202.

- <sup>1</sup> Students are required to select one of two concentrations. Only 3 credit hours of ECO 488, ECO 495, or ECO 499 may be included.

### Applied Economics Concentration

Code	Title	Credit Hours
ECO 320	MANAGERIAL ECONOMICS	3
or ECO 325	INDUSTRIAL ORGANIZATION	
ECO 405	HISTORY OF ECONOMIC THOUGHT	3
Select at least 6 credit hours from the following:		6
ECO 300	LABOR ECONOMICS	
ECO 301	ECONOMICS OF LABOR RELATIONS	
ECO 302	WOMEN IN THE ECONOMY	
ECO 304	MONEY AND BANKING	
ECO 312	URBAN ECONOMICS	
ECO 350	PUBLIC FINANCE	
ECO 355	THE ECONOMICS OF ENERGY AND THE ENVIRONMENT	
ECO 360	INTRODUCTION TO THE ECONOMIC ANALYSIS OF LAW	
ECO 401	INTERNATIONAL ECONOMICS	
ECO 403	COMPARATIVE ECONOMIC SYSTEMS	
ECO 404	ECONOMIC DEVELOPMENT	
ECO 411	REGIONAL ECONOMIC ANALYSIS	
ECO 488	INTERNSHIP	
ECO 495	SPECIAL PROJECT	
ECO 499	INDEPENDENT STUDY	
FIN 400	INTERNATIONAL FINANCE	
GEG 305	PRINCIPLES OF ECONOMIC GEOGRAPHY	
<b>Total Credit Hours</b>		<b>12</b>

### Financial Economics Concentration

Code	Title	Credit Hours
BUS 313	MANAGERIAL ACCOUNTING	3
ECO 304	MONEY AND BANKING	3
FIN 314	CORPORATION FINANCE	3
Select at least 9 credit hours from the following:		9
ECO 488	INTERNSHIP	
ECO 495	SPECIAL PROJECT	
ECO 499	INDEPENDENT STUDY	
FIN 345	ESTATE PLANNING	



FIN 370	TECHNICAL ANALYSIS OF FINANCIAL MARKETS	
FIN 400	INTERNATIONAL FINANCE	
FIN 414	INVESTMENT MANAGEMENT	
FIN 415	CASES IN CORPORATION FINANCE	
FIN 416	ADVANCED CORPORATION FINANCE	
FIN 417	DERIVATIVE SECURITIES	
FIN 418	BOND MARKETS	
FIN 419	MERGERS AND ACQUISITIONS	
<b>Total Credit Hours</b>		<b>18</b>

# Electrical Engineering Technology (Electronics) (B.S.)

Evening study available

BS-SP ETE

## Engineering Technology Department Bachelor of Science (HEGIS 0925)

Technology Building 126  
(716) 878-6017  
engineeringtechnology.buffalostate.edu (<https://engineeringtechnology.buffalostate.edu/>)

The Electrical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, abet.org (<http://www.abet.org>)

### About the Program

Electrical Engineering Technology graduates who specialize in electronics are employed in the design, testing, fabrication, and application of solid-state circuits and systems (both digital and analog), communication systems, and control systems. This includes consumer products, as well as industrial electronics and computer equipment.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours <sup>1</sup>		33-39
<b>Electrical Engineering Technology Major Requirements (54 credit hours)</b>		
ENT 104	ESSENTIALS OF ELECTRICAL ENGINEERING TECHNOLOGY	3
ENT 300	MATHEMATICS APPLICATIONS IN ENGINEERING TECHNOLOGY	3
ENT 301	MECHANICS I	3
ENT 330	ELECTRICAL CIRCUITS ANALYSIS I	3
ENT 332	ELECTRICAL CIRCUITS ANALYSIS II	3
ENT 341	ELECTRONICS	3

ENT 342	ADVANCED CIRCUIT ANALYSIS	3
ENT 345	DIGITAL SYSTEMS	3
ENT 346	MICROCONTROLLERS	3
ENT 351	ANALOG CIRCUITS ANALYSIS	3
ENT 371	ELECTRIC MACHINES	3
ENT 441	COMMUNICATION TRANSMISSION TECHNOLOGY	3
ENT 442	RF AND MICROWAVE COMMUNICATIONS	3
ENT 452	ANALOG SYSTEMS DESIGN AND ANALYSIS	3
ENT 461	CONTROL SYSTEMS I	3
ENT 462	CONTROL SYSTEMS II	3
ENT 465	ELECTRICAL DESIGN I	3
ENT 466	ELECTRICAL DESIGN II	3

### Requirements Outside of Major

28-33 credit hours <sup>1</sup> 28-33

### Electives

Select 3-12 credit hours from the following: 3-12

CHE 101 GENERAL CHEMISTRY I <sup>2</sup>  
or CHE 11 FUNDAMENTALS OF CHEMISTRY I

CHE 102 or CHE 112 or BIO 211 or PHY 213/  
PHY 310 or PHY 308 or PHY 315, or other  
science course with a lab approved by faculty  
advisement.

CIS 151 or CIS 111 or equivalent.

PHY 107 GENERAL PHYSICS I <sup>2</sup>  
or PHY 11 UNIVERSITY PHYSICS I

PHY 108 GENERAL PHYSICS II <sup>2</sup>  
or PHY 11 UNIVERSITY PHYSICS II

### Math Option 1

MAT 126 APPLIED CALCULUS I <sup>2</sup>

MAT 127 APPLIED CALCULUS II

MAT 311 INTRODUCTORY PROBABILITY AND STATISTICS (Preferred for this option. Other mathematics courses such as Calculus III, Linear Algebra, or Discrete Mathematics maybe suggested by program advisement to better meet students career choices.)

### Math Option 2

MAT 161/163 CALCULUS I <sup>2</sup>

MAT 162/164 CALCULUS II

MAT 315 DIFFERENTIAL EQUATIONS (Preferred for this option, Other mathematics courses such as Calculus III, Linear Algebra, or Discrete Mathematics maybe suggested by program advisement to better meet students career choices.)

**Total Credit Hours 120**

<sup>1</sup> The following accreditation requirements can be included in the Intellectual Foundations 2014 requirements and electives (7-9 from Mathematics and Quantitative Reasoning as well as from Natural Science will overlap with IF14 requirements).

<sup>2</sup> Courses overlapping with IF14 requirements.

# Electrical Engineering Technology (Smart Grid) (B.S.)

Evening study available.

BS-SP ETS

## Engineering Technology Department Bachelor of Science (HEGIS 0925)

Technology Building 126  
(716) 878-6017

[engineeringtechnology.buffalostate.edu/](http://engineeringtechnology.buffalostate.edu/) (<https://engineeringtechnology.buffalostate.edu/>)

The Electrical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, [abet.org](http://www.abet.org) (<http://www.abet.org>)

### About the Program

Graduates of the Smart Grid option in Electrical Engineering Technology have found careers in the fields of electrical power generation, transmission, and distribution; industrial, commercial and residential electrical power distribution; as well as power systems protection, control, and monitoring.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours <sup>1</sup>		33-39
<b>Electrical Engineering Technology Major Requirements (57 credit hours)</b>		
ENT 104	ESSENTIALS OF ELECTRICAL ENGINEERING TECHNOLOGY	3
ENT 300	MATHEMATICS APPLICATIONS IN ENGINEERING TECHNOLOGY	3
ENT 301	MECHANICS I	3
ENT 330	ELECTRICAL CIRCUITS ANALYSIS I	3
ENT 332	ELECTRICAL CIRCUITS ANALYSIS II	3
ENT 340	BUILDING INFORMATION MODELING (BIM) USING REVIT MEP	3
ENT 341	ELECTRONICS	3
ENT 342	ADVANCED CIRCUIT ANALYSIS	3
ENT 371	ELECTRIC MACHINES	3
ENT 345	DIGITAL SYSTEMS	3
ENT 346	MICROCONTROLLERS	3

ENT 445	POWER ELECTRONICS	3
ENT 461	CONTROL SYSTEMS I	3
ENT 462	CONTROL SYSTEMS II	3
ENT 465	ELECTRICAL DESIGN I	3
ENT 466	ELECTRICAL DESIGN II	3
ENT 471	POWER SYSTEMS I	3
ENT 472	POWER SYSTEMS II	3
ENT 481	RENEWABLE DISTRIBUTED GENERATION AND STORAGE	3

### Required Courses Outside of Major

25-30 credit hours 25-30

PHY 107 GENERAL PHYSICS I  
or PHY 111 UNIVERSITY PHYSICS I

PHY 108 GENERAL PHYSICS II  
or PHY 111 UNIVERSITY PHYSICS II

CHE 101 GENERAL CHEMISTRY I  
or

CHE 111 FUNDAMENTALS OF & CHE 113 CHEMISTRY I and LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I

CIS 151 COMPUTER-BASED INFORMATION PROCESSING I

#### Math Option 1 (11 credit hours)

MAT 126 APPLIED CALCULUS I

MAT 127 APPLIED CALCULUS II

MAT 202 INTRODUCTION TO LINEAR ALGEBRA <sup>1</sup>

#### Math Option 2 (11 credit hours)

MAT 161 CALCULUS I

MAT 162 CALCULUS II

MAT 315 DIFFERENTIAL EQUATIONS <sup>1</sup>

#### Electives (0-11 credit hours)

**Total Credit Hours** **120**

<sup>1</sup> MAT 202 for Option 1 and MAT 315 for Option 2 are preferred courses. Other mathematics courses such as Calculus III, or Discrete Mathematics may be suggested by program advisement to better meet student's career choices.

## Energy Systems Minor

ENY

### Engineering Technology Department

Technology Building 126  
(716) 878-6017

[engineeringtechnology.buffalostate.edu/](http://engineeringtechnology.buffalostate.edu/) (<https://engineeringtechnology.buffalostate.edu/>)

The Energy Systems minor is designed for a specific group of students enrolled in Mechanical Engineering Technology and Electrical Engineering Technology. Energy Systems minor is multidisciplinary minor combining electrical and mechanical (thermal) aspects of the energy field.

Energy Systems minor will be available for physics majors or any other majors with proper background in mathematics and physics.

## Program Requirements

Electrical Engineering Technology Students

Code	Title	Credit Hours
<b>Required Courses (18 credit hours)</b>		
ENT 311	THERMODYNAMICS	3
ENT 312	FLUID MECHANICS	3
ENT 411	HEAT TRANSFER	3
ENT 481	RENEWABLE DISTRIBUTED GENERATION AND STORAGE	3
ENT 482	SMART GRID FROM SYSTEMS PERSPECTIVE	3
ENT 491	OPERATIONS AND MANAGEMENT OF MODERN GRID	3
<b>Total Credit Hours</b>		<b>18</b>

Mechanical Engineering Technology Students

Code	Title	Credit Hours
<b>Required Courses (18 credit hours)</b>		
ENT 371	ELECTRIC MACHINES	3
ENT 471	POWER SYSTEMS I	3
ENT 472	POWER SYSTEMS II	3
ENT 481	RENEWABLE DISTRIBUTED GENERATION AND STORAGE	3
ENT 482	SMART GRID FROM SYSTEMS PERSPECTIVE	3
ENT 491	OPERATIONS AND MANAGEMENT OF MODERN GRID	3
<b>Total Credit Hours</b>		<b>18</b>

### Prerequisite Courses

Prerequisite course for EET students is ENT 301, which is a required course for all Engineering Technology majors. All students take it as part of their major no matter if they will enroll in the minor or not. Therefore, it is not a hidden prerequisite.

Prerequisite course for MET students is ENT 331, which is a required course for all Engineering Technology majors. All students take it as part of their major no matter if they will enroll in the minor. Therefore, it is not a hidden prerequisite.

## English (B.A.)

BA-AS ENG

### English Department Bachelor of Arts (HEGIS 1501)

Ketchum Hall 208  
(716) 878-5416

The English B.A. program in literature offers a liberal arts English major, the enhancement of writing skills, and electives to satisfy Intellectual Foundations requirements.

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. 58)		
33-39 credit hours		33-39
<b>English Major Requirements (42 credit hours)</b> (27 credit hours must be upper-division)		
<b>Required Courses (12 credit hours)</b>		
ENG 190	INTRODUCTION TO LITERATURE <sup>1</sup>	3
ENG 390	LITERARY CRITICISM AND THEORY	3
ENG 490	SENIOR SEMINAR	3
Select one of the following Major Figure courses:		3
ENG 313	MILTON	
ENG 314	CHAUCER	
ENG 315	SHAKESPEARE I	
ENG 316	SHAKESPEARE II	
<b>Area Courses in English (30 credit hours)</b>		
Select two courses in British literature, at least one before 1850:		6
<i>Pre-1850 options<sup>2</sup></i>		
ENG 210	BRITISH LITERATURE TO 1700	
ENG 211	BRITISH LITERATURE 1700-1914	
ENG 313	MILTON	
ENG 314	CHAUCER	
ENG 315	SHAKESPEARE I	
ENG 316	SHAKESPEARE II	
ENG 415	SEVENTEENTH-CENTURY BRITISH LITERATURE	
ENG 416	EIGHTEENTH-CENTURY ENGLISH LITERATURE	
ENG 417	BRITISH NOVEL TO 1800	
ENG 420	EARLY VICTORIAN LITERATURE	
<i>Other options</i>		
ENG 212	BRITISH LITERATURE SINCE 1914	
ENG 252	BRITISH MODERNISM	
ENG 418	THE BRITISH NOVEL, 1800-1900	
ENG 419	ROMANTIC MOVEMENT IN BRITISH LITERATURE	
ENG 421	LATER VICTORIAN LITERATURE	
ENG 422	JAMES JOYCE AND HIS CONTEMPORARIES	
ENG 455	THE BRITISH NOVEL AFTER 1900	
Select two courses in American literature, at least one prior to 1900:		6
<i>Pre-1900 options</i>		
ENG 220	AMERICAN LITERATURE TO 1865	
ENG 441	THE ROMANTIC MOVEMENT IN AMERICAN LITERATURE	
ENG 442	THE AMERICAN NOVEL TO 1900	

ENG 445	AMERICAN REALISM
<i>Other options</i>	
ENG 221	AMERICAN LITERATURE SINCE 1865
ENG 240	AFRICAN AMERICAN LITERATURE TO 1940
ENG 241	AFRICAN AMERICAN LITERATURE SINCE 1940
ENG 243	INTRODUCTION TO LATINX LITERATURE
ENG 353	AMERICAN INDIAN LITERATURE
ENG 354	ETHNIC AMERICAN MINORITY LITERATURES
ENG 443	AMERICAN POETRY AFTER 1900
ENG 444	THE AMERICAN NOVEL AFTER 1900

Select two courses in world literature, one of which must be non-Western: 6

*Non-Western options*

ENG 230	COMPARATIVE LITERATURE
ENG 345	WORLD LITERATURE AFTER 1945
ENG 346	NON-WESTERN LITERATURE AFTER 1945

*Other options*

ENG 130	BIBLICAL AND CLASSICAL LITERATURE
ENG 131	MEDIEVAL AND RENAISSANCE LITERATURE
ENG 330	LITERATURE OF THE BIBLE
ENG 331	FRENCH LITERATURE IN TRANSLATION
ENG 332	RUSSIAN LITERATURE IN TRANSLATION
ENG 335	MEDIEVAL AND RENAISSANCE EUROPEAN LITERATURE
ENG 337	MODERN EUROPEAN LITERATURE
ENG 350	TWENTIETH-CENTURY DRAMA I
ENG 351	TWENTIETH-CENTURY DRAMA II

The following courses from the Modern and Classical Languages Department can apply to these areas with approval of English Department chair:

*Non-Western option*

FRE 341	FRANCOPHONE LITERATURE IN TRANSLATION
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*Other options*

FRE 331	FRENCH LITERATURE IN TRANSLATION
GER 337	MODERN GERMAN LITERATURE IN TRANSLATION
MCL 337	GREEK AND ROMAN MYTHOLOGY

MCL 338	INTRODUCTION TO CLASSICAL GREEK DRAMA	
Select one course in minority literature: <sup>3</sup>		3
ENG 231	WOMEN IN LITERATURE	
ENG 240	AFRICAN AMERICAN LITERATURE TO 1940	
ENG 241	AFRICAN AMERICAN LITERATURE SINCE 1940	
ENG 243	INTRODUCTION TO LATINX LITERATURE	
ENG 353	AMERICAN INDIAN LITERATURE	
ENG 354	ETHNIC AMERICAN MINORITY LITERATURES	
ENG 385	GENDER AND SEXUALITY IN LITERATURE	
Select three other English courses in linguistics, literature, theory or writing		9

**All College Electives**  
12-39 credit hours of electives 12-39

**Total Credit Hours** 120

- 1 Must be taken immediately after completion of basic communication requirement or within first year of transfer to English Department.
- 2 If students use ENG 313, ENG 314, ENG 315, or ENG 316 to satisfy their Major Figure requirement (see above), they cannot use it to satisfy their pre-1850 requirement.
- 3 If any of these courses are taken to fulfill an American literature requirement, they cannot count for the minority literature requirement.

Note: Other courses, such as topics courses, when appropriate, can also fulfill major requirements. Discuss questions with adviser.

## English Education (7–12, B.S.)

BS-AS ENS

**English Department**  
**Bachelor of Science (HEGIS 1501.01)**

Ketchum Hall 208  
(716) 878-5416

Council for the Accreditation of Educator Preparation (CAEP) Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The English B.S. degree program in secondary education leads to a New York State Initial Certificate for teaching English in grades 7–12.

Freshmen with a high school GPA below 85 and transfers with fewer than 30 credits or a GPA below 3.0 are admitted into

the English major and may switch to English Education upon meeting departmental requirements. Freshmen with a high school GPA of 85 or above and transfers with more than 30 credits and a GPA of 3.0 or above can be admitted directly into English Education.

### Admission Requirements

30 credits of college coursework; mandatory meeting with the English Education coordinator; a 3.0 GPA and/or a strong indication of the professional disposition required to be a successful teacher. Evidence of professional dispositions can be indicated in a variety of ways:

- faculty recommendations,
- completed professional disposition forms,
- interview with English Education Committee, and/or
- evidence of relevant extracurricular activities.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. 58)		
33-39 credit hours		33-39
<b>English (Literature and Language) Major Requirements (39 credit hours)</b>		
21 credit hours must be upper-division		
<b>Required Courses (15 credit hours)</b>		
ENG 190	INTRODUCTION TO LITERATURE <sup>1</sup>	3
ENG 317	SHAKESPEARE FOR FUTURE TEACHERS <sup>2</sup>	3
ENG 354	ETHNIC AMERICAN MINORITY LITERATURES	3
ENG 370	FOUNDATIONS OF LANGUAGE	3
ENG 461	YOUNG-ADULT LITERATURE	3
<b>Area Courses in Literature (24 credit hours)</b>		
Select two courses in British literature, at least one before 1850:		6
<i>Pre-1850 options</i> <sup>3</sup>		
ENG 210	BRITISH LITERATURE TO 1700	
ENG 211	BRITISH LITERATURE 1700-1914	
ENG 252	BRITISH MODERNISM	
ENG 313	MILTON	
ENG 314	CHAUCER	
ENG 315	SHAKESPEARE I	
ENG 316	SHAKESPEARE II	
ENG 415	SEVENTEENTH-CENTURY BRITISH LITERATURE	
ENG 416	EIGHTEENTH-CENTURY ENGLISH LITERATURE	
ENG 417	BRITISH NOVEL TO 1800	
ENG 420	EARLY VICTORIAN LITERATURE	
<i>Other options</i>		
ENG 212	BRITISH LITERATURE SINCE 1914	
ENG 252	BRITISH MODERNISM	
ENG 418	THE BRITISH NOVEL, 1800-1900	

ENG 419	ROMANTIC MOVEMENT IN BRITISH LITERATURE	
ENG 421	LATER VICTORIAN LITERATURE	
ENG 422	JAMES JOYCE AND HIS CONTEMPORARIES	
ENG 455	THE BRITISH NOVEL AFTER 1900	
Select two courses in American literature, at least one prior to 1900:		6
<i>Pre-1900 options</i>		
ENG 220	AMERICAN LITERATURE TO 1865	
ENG 441	THE ROMANTIC MOVEMENT IN AMERICAN LITERATURE	
ENG 442	THE AMERICAN NOVEL TO 1900	
ENG 445	AMERICAN REALISM	
<i>Other options</i>		
ENG 221	AMERICAN LITERATURE SINCE 1865	
ENG 240	AFRICAN AMERICAN LITERATURE TO 1940	
ENG 241	AFRICAN AMERICAN LITERATURE SINCE 1940	
ENG 243	INTRODUCTION TO LATINX LITERATURE	
ENG 353	AMERICAN INDIAN LITERATURE	
ENG 443	AMERICAN POETRY AFTER 1900	
ENG 444	THE AMERICAN NOVEL AFTER 1900	
Select one course in world literature:		3
ENG 130	BIBLICAL AND CLASSICAL LITERATURE	
ENG 131	MEDIEVAL AND RENAISSANCE LITERATURE	
ENG 230	COMPARATIVE LITERATURE	
ENG 330	LITERATURE OF THE BIBLE	
ENG 331	FRENCH LITERATURE IN TRANSLATION	
ENG 332	RUSSIAN LITERATURE IN TRANSLATION	
ENG 335	MEDIEVAL AND RENAISSANCE EUROPEAN LITERATURE	
ENG 337	MODERN EUROPEAN LITERATURE	
ENG 345	WORLD LITERATURE AFTER 1945	
ENG 346	NON-WESTERN LITERATURE AFTER 1945	
ENG 350	TWENTIETH-CENTURY DRAMA I	
ENG 351	TWENTIETH-CENTURY DRAMA II	

The following courses from the Modern and Classical Languages Department can apply to these areas with approval of the English Department chair:

FRE 331	FRENCH LITERATURE IN TRANSLATION
FRE 341	FRANCOPHONE LITERATURE IN TRANSLATION
GER 337	MODERN GERMAN LITERATURE IN TRANSLATION
MCL 337	GREEK AND ROMAN MYTHOLOGY
MCL 338	INTRODUCTION TO CLASSICAL GREEK DRAMA

Select three other English courses in linguistics, literature, theory or writing. 9

Note: Other courses, such as topics courses, when appropriate, can fulfill major requirements. Discuss questions with adviser.

#### General Education Courses (15 credit hours)

EDU/EXE 375	INTEGRATION OF TECHNOLOGY IN EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS <sup>4</sup>	3
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION <sup>4</sup>	3
SPF 403	HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION <sup>4</sup>	3
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	3

#### English Education (27 credit hours)

ENG 200	FIELD EXPERIENCE IN SECONDARY ENGLISH EDUCATION <sup>4</sup>	3
ENG 309	TEACHING AND EVALUATING WRITING <sup>4</sup>	3
ENG 311	METHODS IN TEACHING LANGUAGE	3
ENG 463	METHODS, MATERIALS, AND PROFESSIONAL DEVELOPMENT FOR TEACHERS OF ENGLISH <sup>4</sup>	6
ENG 464	STUDENT TEACHING IN MIDDLE SCHOOL/JUNIOR HIGH SCHOOL ENGLISH <sup>4</sup>	6
ENG 465	STUDENT TEACHING IN SENIOR HIGH SCHOOL ENGLISH <sup>4</sup>	6

#### All College Electives

0-6 credit hours 0-6

**Total Credit Hours 120**

<sup>1</sup> Must be taken immediately after completion of freshman composition requirement or within first year of transfer to English Department.

- <sup>2</sup> Students can instead take ENG 315 or ENG 316
- <sup>3</sup> If students use ENG 315 or ENG 316 to satisfy their Shakespeare requirement (see above), they cannot use it to satisfy their pre-1850 requirement.
- <sup>4</sup> Prerequisite for student teaching (ENG 464 and ENG 465). Students must have 2.75 overall GPA, and a 2.75 GPA in the major to teach.

In addition to academic requirements, students are required to complete all seminars specifically required by New York State for program completion, including School Violence Prevention and Intervention (SAVE); Identification and Reporting of Child Abuse and Maltreatment; Alcohol and Other Drug Avoidance; Fire and Arson Safety; and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training). The seminar requirements are subject to change.

## English Education (7–12, PTCP)

UG-PBC-AS ENS

### English Department Postbaccalaureate Teacher Certification Program (HEGIS 1501.01)

Council for the Accreditation of Educator Preparation (CAEP) Accredited

Ketchum Hall 208  
(716) 878-5416

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The English secondary education post-baccalaureate certification-only program prepares students to create productive learning environments, plan and execute effective instructional activities in the English language arts, monitor and assess student learning, address the special developmental needs of students at the middle-school level and in high school, and work effectively with learners having diverse backgrounds or special needs. It takes approximately three to four semesters to complete certification requirements at Buffalo State. Students in this program take both undergraduate- and graduate-level courses and will be billed appropriately for each type. Graduate credits can be applied to a master's degree at Buffalo State. For financial aid purposes, students will be considered fifth-year undergraduates eligible for undergraduate loans. To apply for the program, students should request an application from the Graduate Studies and Research Office, Cleveland Hall 204.

#### Admission Requirements

1. Bachelor's degree in English with courses in Shakespeare, ethnic American literature, young adult literature, and world literature, or completion of an undergraduate degree in a related discipline with 36 credit hours of coursework in English, including courses in Shakespeare, ethnic American literature, young adult literature, and world literature. Applicants who do not meet these admission

requirements can take courses at Buffalo State to become eligible to apply.

2. The study of a language other than English. Applicants must have completed two years of high school study in one foreign language or two semesters in college. Students not meeting these requirements must complete two semesters of a language other than English at Buffalo State. (Students must provide the department with copies of their high school transcripts to demonstrate the high school foreign-language requirement.)
3. Coursework in exceptional education and education technology (3 credits each) or demonstrated expertise in these areas. Students not meeting these requirements can take undergraduate or graduate courses at Buffalo State.
4. Minimum cumulative GPA of 3.0 in baccalaureate studies, as well as 3.0 GPA in the English major or English coursework.

### Program Requirements

Code	Title	Credit Hours
<b>Undergraduate-level Coursework (15 credit hours)</b>		
SPF 403	HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
ENG 311	METHODS IN TEACHING LANGUAGE	3
ENG 463	METHODS, MATERIALS, AND PROFESSIONAL DEVELOPMENT FOR TEACHERS OF ENGLISH	6
<b>Graduate-level Coursework (9 credit hours)</b>		
SPF 500	MULTICULTURAL EDUCATION	3
SPF 503	EDUCATIONAL PSYCHOLOGY	3
or SPF 529	ADOLESCENT PSYCHOLOGY	
ENG 692	THE TEACHING OF WRITING	3
<b>Student Teaching (12 credit hours)<sup>1</sup></b>		
ENG 464	STUDENT TEACHING IN MIDDLE SCHOOL/JUNIOR HIGH SCHOOL ENGLISH	6
or ENG 465	STUDENT TEACHING IN SENIOR HIGH SCHOOL ENGLISH	
<b>Total Credit Hours</b>		<b>30</b>

<sup>1</sup> Students certified in another secondary area are exempt from this requirement.

### Additional Requirements

To receive provisional teaching certification, students must pass the first two tests of the New York State Teacher Certification Exams, the Liberal Arts and Sciences Test, and the Assessment of Teaching Skills-Written. Registration bulletins for the exams can be obtained from the Teacher Certification Office, Caudell Hall 101.

Students are required to complete all seminars specifically required by New York State for program completion,

including School Violence Prevention and Intervention (SAVE); Identification and Reporting of Child Abuse and Maltreatment; Alcohol and Other Drug Avoidance; Fire and Arson Safety; and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training). The seminar requirements are subject to change.

## English Education Minor

ENE

### English Department

Ketchum Hall 208  
(716) 878-5416

The minor in English Education incorporates courses from the English Department in literature, writing, and English Education (content, pedagogy, and contemporary theories of teaching and learning) that provide students with an understanding of how to effectively teach reading and writing to people of any age from diverse backgrounds, and to critically read the world around them, including popular culture, social media, and current events.

This minor also gives students an opportunity to develop their knowledge of Shakespeare, Young Adult Literature and Multicultural Literature, and to refine their own critical interpretation and creative writing skills in those courses devoted to literature and composition.

For the minor, students choose 7 courses (21 credit hours) from the list of approved courses from the English Department. Students design their program with an adviser or with the English Education Program Coordinator.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (21 credit hours)</b>		
ENG 190	INTRODUCTION TO LITERATURE	3
ENG 200	FIELD EXPERIENCE IN SECONDARY ENGLISH EDUCATION	3
ENG 309	TEACHING AND EVALUATING WRITING	3
or ENG 307	TUTORING AND TEACHING WRITING	
ENG 311	METHODS IN TEACHING LANGUAGE	3
ENG 354	ETHNIC AMERICAN MINORITY LITERATURES	3
ENG 461	YOUNG-ADULT LITERATURE	3
Select one from the following:		3
ENG 317	SHAKESPEARE FOR FUTURE TEACHERS	
ENG 315	SHAKESPEARE I	
ENG 316	SHAKESPEARE II	
<b>Total Credit Hours</b>		<b>21</b>

# Environmental Geography (B.S.)

BS-AS EVG

**Geography and Planning Department  
Bachelor of Science**

Classroom Building A213  
(716) 878-6216

Environmental geography is a subfield in geography that explores human-environment interactions. The B.S. in Environmental Geography provides students with the opportunity to study how humans impact, manage, and conserve the natural environment, including landforms, water and soil resources, climate, and plant and animal communities. Courses in the program focus on understanding processes and patterns in the natural environment, as well as quantitative analysis and applied, hands-on experiences in the classroom and in the field. The program emphasizes the use of geographic tools, such as Geographic Information Systems (GIS) and remote sensing, to prepare students with the skills to identify, explain, and find meaning in human-environment interactions.

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. ) 33-39 credit hours 33-39		
<b>Required Courses (18 credit hours)</b>		
GEG 101	WORLD NATURAL ENVIRONMENTS	3
GEG 102	HUMAN GEOGRAPHY	3
GEG 325	MAPS AND MAPMAKING USING GIS	3
GEG 390	QUANTITATIVE METHODS IN GEOGRAPHY AND PLANNING	3
GEG 396	RESEARCH METHODS	3
<i>Select one course from the following:</i>		
GEG 300	WORLD REGIONAL GEOGRAPHY	3
GEG 359	ARCTIC GEOGRAPHY FROM AN INUIT PERSPECTIVE	3
GEG 360	GEOGRAPHY OF ASIA	3
GEG 362	GEOGRAPHY OF THE UNITED STATES AND CANADA	3
GEG 364	GEOGRAPHY OF EUROPE	3
<b>Environmental Geography electives selected by advisement (12 credit hours)</b>		
GEG 307	CONSERVATION AND ENVIRONMENTAL MANAGEMENT	
GEG 316	WATERSHED POLLUTION	
GEG 365	SOIL SCIENCE AND MANAGEMENT	
GEG 375	PRINCIPLES OF HYDROLOGY	
GEG 383	EXTREME WEATHER	
GEG 386	WEATHER AND SOCIETY	
GEG 418	REMOTE SENSING	

GEG 421	WATERSHED ANALYSIS	
GEG 423	BIOGEOGRAPHY	
GEG 478	GLOBAL CHANGE	
PLN 360	ENVIRONMENTAL IMPACT ASSESSMENT	

**General electives selected by advisement. Any three upper-division Geography courses (9 credit hours)** 9

**All College Electives 42-48 cr**

**Total Credit Hours 120**

## Environment and Society Minor

EVS

**Sociology Department**

Classroom Building B307  
(716) 878-5411

The Minor in Environment and Society offers students an opportunity for comprehensive interdisciplinary study of "human-environment" interactions, providing the skills to think holistically about environmental problems and solutions. The "core" courses are particularly geared toward developing an understanding of the environment as socially constructed and interactive rather than as an objective reality.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
SOC 353	ENVIRONMENT AND SOCIETY	3
HIS 330	U.S. ENVIRONMENTAL HISTORY	3
ENG 247	NATURE WRITING	3
<b>Social Science Electives (6 credit hours)</b>		
Select two from the following: 6		
ANT 367	CULTURE AND ECOLOGY	
PSC 305	ENVIRONMENTAL POLICY	
PSC 306	POLITICS OF ENERGY	
ECO 355	THE ECONOMICS OF ENERGY AND THE ENVIRONMENT	
PSY 370	ENVIRONMENTAL PSYCHOLOGY I	
<b>Natural Science Electives (3 credit hours)</b>		
Select one from the following: 3		
BIO 104	ENVIRONMENTAL BIOLOGY	
BIO 213	INTRODUCTION TO ECOLOGY, EVOLUTION, AND BEHAVIOR	
ENS 300	ENVIRONMENTAL CASE STUDIES	
ENS 100	URBAN ENVIRONMENTAL SCIENCE	
GEG 101	WORLD NATURAL ENVIRONMENTS	



GEG 307	CONSERVATION AND ENVIRONMENTAL MANAGEMENT
GEG 478	GLOBAL CHANGE
GES 101	INTRODUCTORY GEOLOGY
GES 123	ENVIRONMENTAL EARTH SCIENCE
GES 460	ENVIRONMENTAL FIELD METHODS
<hr/>	
<b>Total Credit Hours</b>	<b>18</b>

## Environmental Science Minor

ENV

### Earth Sciences and Science Education Department

SAMC 160  
(716) 878-6731

The environmental science minor is designed to provide a broad base of knowledge in the various natural science disciplines that compose environmental science. The minor gives students the background necessary to understand and evaluate complex environmental issues. The program also provides a basic understanding of the interrelationships of the physical, biological, and human dimensions of the environment.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (21-23 credit hours)</b>		
<i>Biology (3-4 credit hours)</i>		
<i>Physical Environment (3 credit hours)</i>		
BIO 104	ENVIRONMENTAL BIOLOGY	3
or BIO 213	INTRODUCTION TO ECOLOGY, EVOLUTION, AND BEHAVIOR	
GEG 101	WORLD NATURAL ENVIRONMENTS	3
or GES 101	INTRODUCTORY GEOLOGY	
<i>Seminar (3 credit hours)</i>		
ENS 300	ENVIRONMENTAL CASE STUDIES	3
<i>Society and Policy (3 credit hours)</i>		
Select one from the following:		3
ANT 367	CULTURE AND ECOLOGY	
ECO 355	THE ECONOMICS OF ENERGY AND THE ENVIRONMENT	
HIS 330	U.S. ENVIRONMENTAL HISTORY	
PSC 305	ENVIRONMENTAL POLICY	
PSY 370	ENVIRONMENTAL PSYCHOLOGY I	
SOC 353	ENVIRONMENT AND SOCIETY	
<i>Human Impact in the Environment (3 credit hours)</i>		
Select one from the following:		3
ENS 100	URBAN ENVIRONMENTAL SCIENCE	

GES 123	ENVIRONMENTAL EARTH SCIENCE
SCI 231	POLLUTION, THE ENVIRONMENT, AND SOCIETY
<i>Environmental Science (6-7 credit hours)</i>	
Select two from the following: <sup>1</sup>	
BIO 315	ECOLOGY
CHE 315	ENVIRONMENTAL CHEMISTRY AND TECHNOLOGY
GEG 307	CONSERVATION AND ENVIRONMENTAL MANAGEMENT
GEG 365	SOIL SCIENCE AND MANAGEMENT
GEG 375	PRINCIPLES OF HYDROLOGY
GEG 386	WEATHER AND SOCIETY
GEG 421	WATERSHED ANALYSIS
GEG 478	GLOBAL CHANGE
GES 350	ENVIRONMENTAL GEOCHEMISTRY
GES 452	HYDROGEOLOGY
GES 460	ENVIRONMENTAL FIELD METHODS
PLN 360	ENVIRONMENTAL IMPACT ASSESSMENT
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<b>Total Credit Hours</b>	<b>21-22</b>

<sup>1</sup> In this category, students may also choose one environmentally related internship (488), independent project (495), or independent study (499) in one of the following departments: Biology, Chemistry, Earth Science and Science Education, Geography and Planning.

## Ethics Minor

ETH

### Philosophy Department

Buckham B221  
(716) 878-5136

The ethics minor is designed to help students critically examine their values and develop a principled framework for making more ethical decisions.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
PHI 102	INTRODUCTION TO ETHICS	3
PHI 351	ETHICS BOWL	3
PHI 310	HISTORY OF ETHICS	3
or PHI 314	RIGHTS AND RESPECT	
<b>Electives (9 credit hours)</b>		
Select 9 credit hours from the following:		9
PHI 110	THE MEANING OF LIFE	
PHI 210	EXISTENTIALISM	
PHI 301	JUSTICE: LIBERTY VS. EQUALITY	

PHI 308	PHILOSOPHY OF LOVE AND SEX
PHI 310	HISTORY OF ETHICS
PHI 312	PHILOSOPHY OF MIND
PHI 314	RIGHTS AND RESPECT
PHI 401	PROBLEMS IN PHILOSOPHY SEMINAR

**Total Credit Hours** **18**

A minimum cumulative GPA of 2.0 is required for admission to the minor program and at least three of the courses must be completed at SUNY Buffalo State. Philosophy majors may elect to pursue the Ethics Minor.

## Special Education and Childhood Education (B.S.Ed.)

BSED-ED EXE

Dual Certification Program: Teachers of Childhood Special Education and Childhood Education

**Exceptional Education Department**  
**Bachelor of Science in Education (HEGIS 0808)**

Ketchum Hall 204  
(716) 878-3038

National Council for Accreditation of Teacher Education (NCATE) Accredited

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

Undergraduate majors in exceptional education study within a cross-categorical program focusing on the education of students who have a variety of regular and special instructional needs. Included are students in disability groups traditionally associated with intellectual and developmental disabilities, physical/neurological disabilities, and learning and behavioral difficulties.

Graduates of the program typically obtain positions as teachers in inclusive classrooms, resource rooms, self-contained classrooms, special schools, residential facilities, or as consultant teachers in general education settings. Students who pursue initial certification in both childhood special education and childhood education are particularly well qualified to work with students with special needs in integrated education settings. Students in exceptional education complete coursework in elementary education and special education to be recommended for initial certifications as a teacher of childhood education (grades 1–6) and childhood special education (grades 1-6) in New York State.

Candidates who successfully complete the program will be recommended for initial certification. To obtain New York State teacher certification, all candidates who successfully complete the program will be required to pass all New York State Teacher Certification Examinations for Special

Education and for their developmental area (Early Childhood, Childhood, Generalist 7-12).

### Admission Requirements

Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admission criteria should consult with the department. Entering freshmen who express an interest in exceptional education on their applications to Buffalo State who meet the required admissions criteria for teacher education programs will be accepted into exceptional education (0299). Candidates who do not yet meet the minimum criteria may be accepted into the premajor (0301). They may apply for the full major after

1. successfully completing 12 credit hours at Buffalo State, and
2. earning a minimum cumulative GPA of 3.0.

Transfer students from other colleges or Buffalo State students who wish to transfer from another major, will be directly accepted into the exceptional education program if they meet all minimum criteria for teacher education programs. Candidates who do not meet all of the minimum criteria may be accepted as exceptional education premajors (0301) if they have not completed 60 or more credit hours. They may apply for the full major (0299) after

1. successfully completing 12 credit hours at Buffalo State; and
2. earning a minimum cumulative GPA of 3.0.

Buffalo State students who are undeclared or wishing to change to an exceptional education major from another major will be accepted directly into the program (0299) if they meet all of the minimum criteria for teacher education programs. Candidates who do not meet all of the minimum criteria may be accepted as exceptional education premajors (0301) if they have not completed 60 or more credit hours. They may apply for the full major (0299) after

1. successfully completing 12 credit hours at Buffalo State; and
2. earning a minimum cumulative GPA of 3.0

### Program Requirements

Code	Title	Credit Hours
	Intellectual Foundations Requirements (p. )	
	30 credit hours <sup>1</sup>	30

#### **Total Required Credit Hours for Concentration (30 credit hours)**

A concentration can be in one of the following subjects:

American Studies
English
French
Italian
Math
Science
Social Studies
Spanish

Urban Studies

<b>Distribution Courses beyond IF</b>		
9 credit hours		9
<b>Exceptional Education Major Requirements (65 credit hours)</b>		
EDU 211	INTRODUCTION TO LITERACY	3
EDU 310	TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL	3
EDU 313	TEACHING SCIENCE IN EARLY CHILDHOOD AND CHILDHOOD SETTINGS	3
EDU 322	LITERACY INSTRUCTION IN THE ELEMENTARY SCHOOL	3
EDU 342	TEACHING ELEMENTARY SCHOOL MATHEMATICS	3
EDU 404	PRACTICUM IN ELEMENTARY TEACHING FOR EX ED & MIDDLE SCHOOL EX STUDENTS	6
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	3
EXE 221	FOUNDATIONS OF EFFECTIVE ASSESSMENT AND INSTRUCTION IN SPECIAL EDUCATION	3
EXE 321	REMEDIATING AND ADAPTING LITERACY INSTRUCTION FOR STUDENTS WITH AND AT RISK FOR DISABILITIES	3
EXE/EDU 323	FIELD PLACEMENT IN LITERACY METHODS FOR CHILDREN WITH AND WITHOUT DISABILITIES	3
EXE 343	FIELD PLACEMENT FOR TEACHING ELEMENTARY SCHOOL MATHEMATICS	3
EXE 344	TEACHING MATHEMATICS TO STUDENTS WITH AND AT RISK FOR DISABILITIES	3
EXE 362	BEHAVIOR AND CLASSROOM MANAGEMENT	3
EXE 364	EDUCATING STUDENTS WITH SEVERE DISABILITIES	3
EXE 390	STRATEGIES AND TECHNOLOGY TO ADAPT CONTENT AREA INSTRUCTION	3
EXE 420	PRACTICUM IN SPECIAL EDUCATION	6
SPF 202	CHILD DEVELOPMENT AND EDUCATION	3
SPF 203	SCHOOL AND SOCIETY	3
SPF 302	EDUCATIONAL PSYCHOLOGY: ELEMENTARY EDUCATION	3
<b>Total</b>		<b>120-126</b>

<sup>1</sup> Some general education (IF 14) courses may overlap with required courses in the major, distribution, and concentration which could significantly reduce the total number of credit hours required. Advisement is strongly encouraged.

## Exercise Science Minor

ESM

### Health, Nutrition, and Dietetics Department

Houston Gym 202  
(716) 878-6501

This minor emphasizes that physical activity is inextricably linked to longevity and disease prevention. Individuals with an exercise science minor will have the foundational knowledge and skills to pursue a career in personal training, corporate fitness, and graduate school in applied exercise physiology. Students with an exercise science minor are encouraged to pursue highly recognized certifications related to exercise science.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (15 credit hours)</b>		
BIO 100	PRINCIPLES OF BIOLOGY	3
or BIO 111	FOUNDATIONS OF BIOLOGY	
BIO 308	SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	3
HEW 301	KINESIOLOGY: APPLIED ANATOMY AND BIOMECHANICS	3
HEW 304	EXERCISE PHYSIOLOGY I	3
HEW 306	EXERCISE PHYSIOLOGY II	3
<b>Electives (6 credit hours)</b>		
Select two from the following:		6
HEW 330	PRINCIPLES OF PERSONAL TRAINING	
HEW 335	PREVENTION AND CARE OF ATHLETIC INJURIES	
NFS 102	INTRODUCTORY NUTRITION	
PSY 376	HEALTH PSYCHOLOGY	
SOC 324	SOCIOLOGY OF SPORT	
<b>Total Credit Hours</b>		<b>21</b>

## Family and Consumer Sciences Education (B.S.)

BS-ED FCS

### Department of Career and Technical Education Bachelor of Science (HEGIS 1301.01)

Bacon Hall 112  
(716) 878-4717

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education"**

**Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The Family and Consumer Sciences Education Undergraduate Program offers a broad knowledge of family and consumer sciences, plus skills in planning and communicating this knowledge to others.

The Bachelor of Science degree program in Family and Consumer Sciences Education leads to initial K-12 certification to teach Family and Consumer Sciences. Graduates from the Family and Consumer Sciences Education program are prepared to teach Family and Consumer Sciences. The Bachelor of Science degree in Family and Consumer Sciences Education is necessary for certification in order to obtain a teaching position.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. 33-39 credits)		33-39

#### Family and Consumer Sciences Major Requirements (33 credit hours)

SAF 310	PERSONAL SAFETY AND FIRST AID	3
NFS 105	FOOD AND PEOPLE	3
NFS 334	CONTEMPORARY NUTRITION	3
FTT 100	CONSTRUCTION FUNDAMENTALS	1
FTT 206 or FTT 349	INTRODUCTION TO TEXTILES HISTORY OF TEXTILES	3
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
IDE 101	INTRODUCTION TO INTERIOR DESIGN	3
SPF 202	CHILD DEVELOPMENT AND EDUCATION	3
SPF 345	PARENTING	3
SPF 353	HUMAN DEVELOPMENT DURING EARLY ADOLESCENCE AND ADOLESCENCE	3
FIN 110 or BUS 116	PERSONAL FINANCE INTRODUCTION TO BUSINESS	3

#### Professional Education Major Requirements (33 credit hours)

CTE 301	FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION	3
CTE 302	CURRICULUM AND EVALUATION IN CAREER AND TECHNICAL EDUCATION	3
CTE 303	INSTRUCTIONAL STRATEGIES IN CAREER AND TECHNICAL EDUCATION	3
CTE 311	CAREER MENTORING	3
CTE 402	ASSESSMENT IN CAREER AND TECHNICAL EDUCATION	3

CTE 404	METHODS OF TEACHING CAREER AND TECHNICAL SUBJECTS	3
CTE 421	CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS	3
FCS 415	STUDENT TEACHING I	6
FCS 416	STUDENT TEACHING II	6
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3

#### All College Electives

15-21 credit hours	15-21
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<b>Total Credit Hours</b>	<b>120</b>
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## Fashion and Textile Technology (B.S.)

BS-SP FTT

### Fashion and Textile Technology Department Bachelor of Science (HEGIS 1303)

Technology Building 303  
(716) 878-3478

The Fashion and Textile Technology department at Buffalo State is the only baccalaureate department in Western New York that offers a variety of career preparation options for the multifaceted, global fashion industry. Faculty expertise, continuous updating of technology-based curriculum, and industry partnerships contribute to the strength of the program. Class sizes are small, allowing individual attention. Students are encouraged to participate in extracurricular programmatic activities and regional and national competitions. Students have achieved top honors in national apparel and textile design competitions. Internships are available in the Buffalo area as well as nationally and internationally. Affiliations with industry and professional organizations include the American Apparel and Footwear Association (AAFA); the Costume Society of America (CSA); American Collegiate Retailing Association (ACRA); the American Association of Textile Chemists and Colorists (AATCC); the National Retail Federation (NRF), and the Textile and Apparel Program Accreditation Commission (TAPAC); and the International Textile and Apparel Association (ITAA).

The Fashion and Textile Technology department is to prepare students for employment in the apparel, textile, and fashion industries. Employment opportunities exist in textiles, fashion merchandising/buying, retail management, digital textile design, apparel design, 3D design for textiles and apparel, apparel production, apparel product development, textile testing/quality control, home furnishings, and government agencies. Examples of available positions include technicians in testing labs to set safety and performance standards, CAD (print, weave, knit, technical, or fashion graphic) textile and apparel designers, technical designers, trend and design specialists, private label costing and sourcing, buyers, merchandisers, planners, stylists, colorists, fashion entrepreneurs, fashion/visual merchandisers, merchandiser representatives, fashion journalists, logistics specialists, U.S.

customs agents, and theater costuming, market researcher, social media planners, brand strategists, and trend forecasters.

Graduates have been employed by most major apparel and textile companies, including, but not limited to: Abercrombie & Fitch, Calvin Klein, Dior, Ralph Lauren, Macy's, Fisher-Price, New Era, Eastman Machine Co., AccuMED Technologies Inc., GAP and GAP Kids, Lord & Taylor, Bureau Veritas testing labs, Limited, Oxford Industries, Swavelle/Mill Creek, Tony Walker & Co., Tobin Home Fashions, Tommy Hilfiger, Graco Home Fashions International, Park B. Smith, Appollo Patio Furniture Design, Target, Dillards, and Victoria's Secret.

### Department Information

The curriculum for the fashion and textile technology department is divided into two parts: the required 21 credit hours of core coursework; and one or more specialized concentrations: fashion merchandising, apparel design, apparel product development, or fashion/textile design technologies. Individuals who have extensive work experience in the fashion field are encouraged to explore earning college credit by course challenge or experiential learning.

Fashion and textile technology majors may spend their senior year studying a specialty topic at the Fashion Institute of Technology (FIT) in New York City in a "three-one" program, earning a B.S. from Buffalo State and an associate's degree from FIT. Study abroad opportunities are available in several countries.

### Scholarships and Financial Aid

Students may apply for departmental scholarships every spring. Financial assistance through the college is also available. Buffalo State is one of a select group of institutions whose students compete for the annual Fashion Scholarship Fund which offers competitive \$5000 - \$35,000 scholarships.

### Program Requirements

Code	Title	Credit Hours
	Intellectual Foundations Requirements (p. )	
	33-39 credits	33-39

#### Fashion and Textile Technology Major Requirements (51 credit hours)

##### Required Core Courses (21 credit hours)

Code	Title	Credit Hours
FTT 110	FUNDAMENTALS OF THE FASHION INDUSTRY	3
FTT 206	INTRODUCTION TO TEXTILES	3
FTT 208	INTRODUCTION TO FASHION TECHNOLOGIES	3
FTT 306	TEXTILE EVALUATION	3
FTT 310	SEWN PRODUCTS INDUSTRY	3
FTT 358	FASHION FORECASTING	3
FTT 450	GLOBAL ISSUES IN FASHION AND TEXTILE INDUSTRY	3

##### Concentration Courses (30 credit hours)

	Select one concentration from below:	30
	Fashion Merchandising Concentration (p. )	
	Apparel Design Concentration (p. )	
	Apparel Product Development Concentration (p. )	

Fashion/Textile Design Technologies Concentration (p. )

#### Recommended All College Electives

DES 307	COLOR THEORY
FTT 150	FASHION MERCHANDISING
FTT 304	SURFACE PATTERN DEVELOPMENT FOR INDUSTRY
FTT 308	FASHION CAD (Computer Aided Design)
FTT 329	DESIGNING KNIT APPAREL
FTT 348	HISTORY OF COSTUME
FTT 349	HISTORY OF TEXTILES
FTT 355	RESEARCH IN FASHION MERCHANDISING
FTT 359	VISUAL MERCHANDISING
FTT 410	ADVANCED PRODUCT DEVELOPMENT
FTT 452	FASHION SHOW PRODUCTION

Courses may have additional prerequisites.

#### All College Electives

30-36 credit hours	30-36
<b>Total Credit Hours</b>	<b>120</b>

#### Fashion Merchandising Concentration

Code	Title	Credit Hours
BUS 320	PRINCIPLES OF MARKETING	
FTT 150	FASHION MERCHANDISING	
FTT 250	FASHION BUYING AND MERCHANDISING PRINCIPLES	
FTT 350	FASHION MERCHANDISING APPLICATIONS	
FTT 455	ISSUES IN MERCHANDISING AND FASHION RETAILING	
FTT 475	FASHION MANAGEMENT SEMINAR	
FTT 488	INTERNSHIP/FIELD EXPERIENCE	
Select three from the following:		
BUS 212	INTRODUCTION TO ACCOUNTING	
BUS 360	PRINCIPLES OF MANAGEMENT	
FTT 308	FASHION CAD (Computer Aided Design)	
FTT 365	FASHION DIGITAL RETAILING	
FTT 355	RESEARCH IN FASHION MERCHANDISING	
FTT 359	VISUAL MERCHANDISING	
FTT 410	ADVANCED PRODUCT DEVELOPMENT	

#### Apparel Design Concentration

Code	Title	Credit Hours
FTT 109	FUNDAMENTALS OF APPAREL CONSTRUCTION	
FTT 224	PATTERN DRAFTING AND GRADING FOR INDUSTRY	

FTT 303	FASHION ILLUSTRATION/ DRAWING I
FTT 324	INDUSTRIAL APPAREL ASSEMBLY
FTT 326	TRADITIONAL/COMPUTER FLAT PATTERN
FTT 327	2D/3D COMPUTER PATTERNMAKING
FTT 328	APPAREL DESIGN III: DRAPING
FTT 451	SENIOR PROJECT
or FTT 488	INTERNSHIP/FIELD EXPERIENCE
Select two from the following:	
FTT 304	SURFACE PATTERN DEVELOPMENT FOR INDUSTRY
FTT 308	FASHION CAD (Computer Aided Design)
FTT 329	DESIGNING KNIT APPAREL
FTT 410	ADVANCED PRODUCT DEVELOPMENT
FTT 412	CAD: APPAREL AND TEXTILE DESIGN FOR INDUSTRY
FTT 413	CAD: WEAWE FOR INDUSTRY
FTT 461	SENIOR SEMINAR IN FASHION PRODUCT DEVELOPMENT

#### Apparel Product Development Concentration

Code	Title	Credit Hours
FTT 109	FUNDAMENTALS OF APPAREL CONSTRUCTION	
FTT 224	PATTERN DRAFTING AND GRADING FOR INDUSTRY	
FTT 324	INDUSTRIAL APPAREL ASSEMBLY	
FTT 326	TRADITIONAL/COMPUTER FLAT PATTERN	
FTT 327	2D/3D COMPUTER PATTERNMAKING	
FTT 410	ADVANCED PRODUCT DEVELOPMENT	
Select one from the following:		
FTT 451	SENIOR PROJECT	
FTT 488	INTERNSHIP/FIELD EXPERIENCE	
FTT 461	SENIOR SEMINAR IN FASHION PRODUCT DEVELOPMENT	
Select three from the following:		
FTT 304	SURFACE PATTERN DEVELOPMENT FOR INDUSTRY	
FTT 308	FASHION CAD (Computer Aided Design)	
FTT 329	DESIGNING KNIT APPAREL <sup>3</sup>	
FTT 412	CAD: APPAREL AND TEXTILE DESIGN FOR INDUSTRY	
FTT 413	CAD: WEAWE FOR INDUSTRY	

#### Fashion/Textile Design Technologies Concentration

Code	Title	Credit Hours
DES 242	FIBERS I	
FTT 303	FASHION ILLUSTRATION/ DRAWING I	
or FAR 10	DRAWING I	
FTT 304	SURFACE PATTERN DEVELOPMENT FOR INDUSTRY	
FTT 308	FASHION CAD (Computer Aided Design)	
FTT 412	CAD: APPAREL AND TEXTILE DESIGN FOR INDUSTRY	
FTT 413	CAD: WEAWE FOR INDUSTRY	
Select one from the following:		
FTT 451	SENIOR PROJECT	
FTT 488	INTERNSHIP/FIELD EXPERIENCE	
Select one from the following:		
FTT 348	HISTORY OF COSTUME	
FTT 349	HISTORY OF TEXTILES	
THA 332	PERIOD STYLES AND CULTURE	
Select two from the following:		
AED 100	ESSENTIALS OF VISUAL ARTS	
DES 307	COLOR THEORY <sup>3</sup>	
DES 342	FIBERS II <sup>3</sup>	
FAR 210	INTRODUCTORY PAINTING <sup>3</sup>	
FTT 150	FASHION MERCHANDISING	
FTT 410	ADVANCED PRODUCT DEVELOPMENT <sup>3</sup>	

## Fashion Design Minor

FAS

### Fashion and Textile Technology Department

Technology Building 303  
(716) 878-3478

The 21-credit minor consists of seven courses that focus on the creativity, technology, and techniques required to design and construct apparel. This program introduces students to the processes and technology associated with designing and creating apparel, as well as the creative and technical considerations in the fashion industry. Students have the opportunity to design and create their own apparel using different equipment and software programs.

The fashion design minor creates opportunities for interdisciplinary specialization. For instance, a communication major could combine fields for a career in fashion public relations, or a theater major could delve into costume design.

The minor is available to any student who is not currently majoring in the fashion and textile technology program.

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (21 credit hours)</b>		
FTT 109	FUNDAMENTALS OF APPAREL CONSTRUCTION	3
FTT 208	INTRODUCTION TO FASHION TECHNOLOGIES	3
FTT 224	PATTERN DRAFTING AND GRADING FOR INDUSTRY	3
FTT 303	FASHION ILLUSTRATION/DRAWING I	3
FTT 308	FASHION CAD (Computer Aided Design)	3
FTT 324	INDUSTRIAL APPAREL ASSEMBLY	3
FTT 328	APPAREL DESIGN III: DRAPING	3
<b>Total Credit Hours</b>		<b>21</b>

## Fiber Arts Certificate

UGCT-AS FIA

### Art and Design Department

Upton Hall 402  
(716) 878-6032

The Fiber Arts Certificate is a grouping of specialized courses providing a foundation for careers as artists, designers, or other professions in fiber manufacturing and business. The courses include hands-on studio experiences with an emphasis on technical skills, aesthetics and conceptual aspects in various weaving, surface design, and mixed media techniques.

Total Required Credits: 12

Code	Title	Credit Hours
<b>Required Courses:</b>		
DES 242	FIBERS I	3
DES 307	COLOR THEORY	3
DES 342	FIBERS II	3
DES 344	FIBERS: JUNIOR STUDIO	3

## Fibers (B.F.A.)

BFA-AS FIB

### Art and Design Department Bachelor of Fine Arts (HEGIS 1009)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD) Accredited

The B.F.A. degree in Fibers is a studio-intensive program of study focused on developing the aesthetic, conceptual, and technical skills necessary to foster creativity as students work toward developing their individual identity as visual designers/artists. This degree offers students a specialized studio-

oriented education in preparation for advanced or graduate studies, or for beginning careers as professional designers or artists.

Students begin with foundation courses in two-dimensional design, three-dimensional design, drawing, painting, art history, and design history, along with courses in ceramics, metals/jewelry, and wood. Major courses in fibers complete the requirements. Internship opportunities are available. The remaining credit hours are completed in required Intellectual Foundations courses and in other chosen studio courses.

### Admission Requirements

There is no entrance portfolio review for admission. All students will enter the fibers major with a bachelor of fine arts (BFA-AH FIB), and must complete a selection of foundation and major course(s) before a commit-to-major portfolio review for continuation in the bachelor of fine arts program (BFA-AH FIB). Commit-to-major portfolio reviews are conducted by faculty and generally take place during the sophomore year. After passing the portfolio review, to continue in the B.F.A. degree program a 3.0 GPA must be maintained in the major. Transfer students are urged to submit their portfolios the semester before transfer in order to facilitate placement in departmental courses and/or for possible commit-to-major portfolio review. As a condition of graduation, B.F.A students will be required to mount an individual exhibition of their work and present a professional portfolio.

The Art and Design Department reserves the right to retain students' work for official purposes, such as exhibitions, catalogs, teaching aids, or permanent collections, and to use images of the students and their work for publicity and recruitment. Students are expected to assume the costs of materials used in courses. Some studio courses may have an additional charge for materials used in class. Students enrolled in a studio course are expected to work a minimum of three additional hours each week outside of class for each credit granted for that class.

The Art and Design Department may be in the process of curricular revision. Please refer to the college's Web site or the department for updated information.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
39-66 credit hours		39-66
<b>Fibers Major Requirements (79 credit hours)</b>		
<i>Foundation Courses (37 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
DES/AAD 103	INTRODUCTION TO THREE-DIMENSIONAL DESIGN	3
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
DES 108/ AAD 105	DIGITAL DESIGN AND FABRICATION	3
DES 220	CERAMICS I	3
DES 230	INTRODUCTION TO JEWELRY MAKING	3
DES 250	WOOD DESIGN I	3

DES 312	HISTORY OF CRAFT: INDUSTRIAL REVOLUTION TO THE PRESENT	3
DES 414	SENIOR SEMINAR/EXHIBITION	4
FAR/AAD 101	DRAWING I	3
FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
<i>Major Courses (30 credit hours)</i>		
DES 242	FIBERS I	3
DES 338	COMPUTER THREE- DIMENSIONAL MODELING AND RENDERING	3
DES 342	FIBERS II	3
DES 344	FIBERS: JUNIOR STUDIO (take twice)	3
DES 444	FIBERS: SENIOR STUDIO (take three times)	3
FTT 304	SURFACE PATTERN DEVELOPMENT FOR INDUSTRY	3
FTT 412	CAD: APPAREL AND TEXTILE DESIGN FOR INDUSTRY	3
or FTT 413	CAD: WEAWE FOR INDUSTRY	
<i>Design and Art Studio Electives</i>		
12 Credits by advisement from the following:		3
DES 320	CERAMICS II	
DES 321	CERAMICS: JUNIOR STUDIO (or DES 331 or DES 351)	
DES 330	APPLIED JEWELRY TECHNIQUES	
DES 350	WOOD DESIGN II	
FAR 210	INTRODUCTORY PAINTING	
<b>All College Electives</b>		
0-2 credit hours		0-2
<b>Total Credit Hours</b>		<b>120</b>

## Film Studies Minor

FLM

### English Department

Ketchum Hall 208  
(716) 878-5416

The interdisciplinary minor in Film Studies is a flexible program that incorporates courses in the history, culture, and theory of film, and makes connections between film and literature as narrative art forms. The Film Studies Minor also gives students experience in developing their critical and creative writing skills in courses devoted to film criticism and screenwriting.

For the minor, students choose seven courses (21 credits) from the list of approved courses from the English, Communication, and Modern and Classical Languages Departments and the Television and Film Arts program. Students design their program with their adviser or with the director of Film

Studies; their programs must be approved by the English Department chair.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
ENG 205	HISTORY OF CINEMA I	3
ENG 303	LITERATURE IN FILM	3
or ENG 304	FORMS OF FILM	
ENG 245	WRITING ABOUT THE ARTS	3
or ENG 305	CREATIVE WRITING: NARRATIVE	
<b>Electives (12 credit hours)</b>		
Select four from the following:		12
ENG 160	INTRODUCTION TO LITERATURE AND FILM	
ENG 206	HISTORY OF CINEMA II	
ENG 245	WRITING ABOUT THE ARTS	
ENG 303	LITERATURE IN FILM	
ENG 304	FORMS OF FILM	
ENG 305	CREATIVE WRITING: NARRATIVE	
ENG 402	ADVANCED CREATIVE WRITING: NARRATIVE	
ENG 404	STUDIES IN CINEMA	
ITA 450	DIRECTED READINGS I	
ITA 451	DIRECTED READINGS II	
MCL 110	INTRO FRENCH CINEMA	
SPC 326	FILM ANALYSIS AND EVALUATION	
TFA 201	INTRODUCTION TO TELEVISION AND FILM ARTS	

**Total Credit Hours** **21**

## Forensic Anthropology Minor

FAN

### Anthropology Department

Classroom Building B107  
(716) 878-6110

The focus is the discovery, preservation and interpretation of material evidence, emphasizing the significance of context. The application of findings as evidentiary in legal cases is the goal. The required courses build on the traditional skills and knowledge of biological anthropology and field archaeology, with recovery and analysis of fragmentary data and reconstruction of earlier events as primary proficiencies.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (15 credit hours)</b>		
ANT 100	HUMAN ORIGINS	3
ANT 308	ARCHAEOLOGICAL METHOD	6
ANT 324	THE HUMAN SKELETON	3
ANT 325	FORENSIC ANTHROPOLOGY	3
<b>Electives (6 credit hours)</b>		



Select 3 credit hours of lower division and 3 credit hours of upper division courses from the following:	6
ANT 101 UNDERSTANDING CULTURE	
ANT 495 SPECIAL PROJECT	
CRJ 101 INTRODUCTION TO CRIMINAL JUSTICE	
FAR 220 INTRODUCTORY PHOTOGRAPHY	
FOR 122 SCIENTIFIC CRIMINAL EVIDENCE ANALYSIS	
FOR 312 CHEMISTRY AND CRIMINALISTICS	
GES 360 FORENSIC GEOSCIENCE	
PSY 375 FORENSIC PSYCHOLOGY	
PSY 384 PSYCHOLOGY OF AGGRESSION AND VIOLENCE	
SOC 380 SOCIOLOGY OF CRIME	
Other elective courses possible by advisement-consult department.	
<b>Total Credit Hours</b>	<b>21</b>

NOTE: Anthropology majors may count ONLY one course (ANT 100) for both this minor and major program.

## Forensic Chemistry (B.S.)

BS-AS FRC

**Chemistry Department**  
**Bachelor of Science (HEGIS 1999.20)**

SAMC 164  
(716) 878-5204

Forensic Science Education Programs Accreditation Commission (FEPAC) accredited

Forensic chemistry is a program of professional study whose graduates are prepared to assume entry-level positions as forensic scientists in federal, state, local, and corporate laboratories.

### Admission Requirements

Prospective majors must complete CHE 111, CHE 112, CHE 113 and CHE 114 (or the equivalents) with minimum grades of C before applying to the program. Students who have not yet met these requirements will be accepted into the pre-forensic chemistry program (FRCW) and will be formally admitted to the major upon completion of the previously stated requirements.

### Admission Recommendations

Transfer students from two-year colleges should also have earned credit for courses equivalent to

Code	Title	Credit Hours
CHE 201	ORGANIC CHEMISTRY I	3
CHE 202	ORGANIC CHEMISTRY II	3
CHE 203	ORGANIC CHEMISTRY LABORATORY I	1
CHE 204	ORGANIC CHEMISTRY LABORATORY II	1

MAT 161	CALCULUS I	4
MAT 162	CALCULUS II	4
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	1
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	1
PHY 111	UNIVERSITY PHYSICS I	5
PHY 112	UNIVERSITY PHYSICS II	5
BIO 211	INTRODUCTION TO CELL BIOLOGY AND GENETICS	4

to avoid possible delays in the completion of the degree program. Transfer students must complete a minimum of 10 credit hours in chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State only if they have equivalent prerequisites. Chemistry courses not meeting this criterion may be transferred as elective credit.

Important Note: Individuals seeking an internship or employment in a forensic science laboratory may be required to undergo an extensive background check including a lie detector test, fingerprinting, and drug testing.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Required Courses in Chemistry (33 credit hours)</b>		
CHE 111	FUNDAMENTALS OF CHEMISTRY I	3
CHE 112	FUNDAMENTALS OF CHEMISTRY II	3
CHE 113	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I	1
CHE 114	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II	1
CHE 201	ORGANIC CHEMISTRY I	3
CHE 202	ORGANIC CHEMISTRY II	3
CHE 203	ORGANIC CHEMISTRY LABORATORY I	1
CHE 204	ORGANIC CHEMISTRY LABORATORY II	1
CHE 301	ANALYTICAL CHEMISTRY	4
CHE 331	PRINCIPLES OF PHYSICAL CHEMISTRY	3
CHE 403	INSTRUMENTAL ANALYSIS	3
CHE 404	INSTRUMENTAL ANALYSIS LAB	2
CHE 470	BIOCHEMISTRY I	3
CHE 471	BIOCHEMICAL TECHNIQUES	2
<b>Required Courses in Forensic Science (19 credit hours)</b>		
<i>Forensic Science</i>		
FOR 122	SCIENTIFIC CRIMINAL EVIDENCE ANALYSIS	3

FOR 312	CHEMISTRY AND CRIMINALISTICS	4
FOR 410	PROFESSIONAL PRACTICES IN FORENSIC SCIENCE	3

*Advanced Forensic Science*

FOR 414	FORENSIC CHEMISTRY LABORATORY	
FOR 416	CHEMICAL MICROSCOPY or CHE 406 ANALYTICAL TOXICOLOGY	

*Choose one from the following (Capstone):*

FOR 412	INTERNSHIP IN CRIMINALISTICS	
FOR 495	SPECIAL PROJECT	

**Required Courses in Biology (8 credit hours)**

BIO 211	INTRODUCTION TO CELL BIOLOGY AND GENETICS	4
BIO 303	GENETICS	4
or BIO 350	GENES IN POPULATIONS	

**Upper Division Elective Courses (3-4 credit hours)**

Select at least 3 credit hours from the following: 3-4

ANT 324	THE HUMAN SKELETON	
ANT 325	FORENSIC ANTHROPOLOGY	
BIO 305	MOLECULAR BIOLOGY	
BIO 308	SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	
BIO 309	LABORATORY SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	
BIO 314	ADVANCED CELL BIOLOGY	
BIO 316	GENERAL MICROBIOLOGY	
BIO 450	RECOMBINANT DNA TECHNOLOGY	
CHE 310	LITERATURE OF CHEMISTRY	
CHE 360	INTRODUCTION TO INORGANIC CHEMISTRY	
CHE 406	ANALYTICAL TOXICOLOGY (*)	
CHE 472	BIOCHEMISTRY II	
FOR 412	INTERNSHIP IN CRIMINALISTICS (**)	
FOR 416	CHEMICAL MICROSCOPY (*)	
FOR 495	SPECIAL PROJECT (**)	
GES 360	FORENSIC GEOSCIENCE	
PSY 375	FORENSIC PSYCHOLOGY	

**Required Courses in Other Fields (23 credit hours)**

MAT 161	CALCULUS I	4
MAT 162	CALCULUS II	4
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	1
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	1
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS	3
PHY 111	UNIVERSITY PHYSICS I	5
PHY 112	UNIVERSITY PHYSICS II	5

**All College Electives**

0-2 credit hours	0-2
<b>Total Credit Hours</b>	<b>120-126</b>

\* May not be used as both an Advanced Forensic Science elective and as an elective course in this category.  
 \*\*May not be used as both a capstone course and as an elective course in this category.

## French & Francophone Culture Minor

FFC

**Modern and Classical Languages**

Buckham B234  
(716) 878-5414

Whether you are thinking about an international career or just yearn for a life of travel, a minor in French & Francophone Culture can prepare you for the world ahead, or signal to employers and graduate schools that you are ready for international opportunities. A minor involves taking six courses, as described below, and can augment your major program.

**Program Requirements**

Code	Title	Credit Hours
<b>Required Courses (6 credit hours)</b>		
Select two from the following:		6
FRE 301	INTRODUCTION TO FRANCOPHONE CULTURE	
FRE 302	INTRODUCTION TO FRANCOPHONE MEDIA	
FRE 101	BEGINNING FRENCH I	
FRE 102	BEGINNING FRENCH II	
FRE 201	INTERMEDIATE FRENCH I	
FRE 202	INTERMEDIATE FRENCH II	
<b>Electives (15 credit hours)</b>		
Select 15 credit hours from the following:		15
FRE 101	BEGINNING FRENCH I	
FRE 102	BEGINNING FRENCH II	
FRE 201	INTERMEDIATE FRENCH I	
FRE 202	INTERMEDIATE FRENCH II	
FRE 203	WORKPLACE FRENCH I	
FRE 204	WORKPLACE FRENCH II	
FRE 306	FRENCH CULTURE: PREHISTORY TO THE RENAISSANCE	
FRE 307	FRENCH CULTURE: RENAISSANCE TO REVOLUTION	
FRE 308	FRENCH CULTURE: REVOLUTION TO BELLE EPOQUE	
FRE 309	LITERATURE AND CULTURE OF FRANCE IN THE TWENTIETH CENTURY	

FRE 310	ISSUES IN PROFESSIONAL COMMUNICATION
FRE 321	ISSUES AND THEMES IN THE FRANCOPHONE WORLD
FRE 389	TOPICS COURSE
FRE 420	LITERATURE AND SOCIETY OF FRANCOPHONE CANADA: 1700 TO THE PRESENT
FRE 435	FRANCOPHONE AFRICAN LITERATURE IN POST-COLONIAL CONTEXT
FRE 440	ORIGINS OF MODERN FRANCE
FRE 455	MOLIERE'S COMEDIES IN SOCIO-CULTURAL CONTEXT
FRE 460	FRANCO-CARIBBEAN LITERATURE, HISTORY & CULTURE
FRE 495	SPECIAL PROJECT
FRE 496	SEMINAR I
FRE 497	SEMINAR II
FRE 499	INDEPENDENT STUDY
INE 390	STUDY ABROAD (INTERNATIONAL EDUCATION)
<b>Total Credit Hours</b>	

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## Geographic Information Systems Minor

GIS

### Geography and Planning

Classroom Building A213  
(716) 878-6216

The Geographic Information Systems (GIS) minor allows students to gain the depth needed for many of the jobs available today requiring knowledge of spatial analysis and geographic data processing capabilities. GIS applications are found in many fields; such as business planning and operations management, epidemiology, criminology, land use planning and economic development, environmental management and conservation, military operations, emergency management, infrastructure management, transportation planning, and library sciences. The GIS minor provides students in any discipline the background and skills to use the technology to support decisions in their field of interest.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
GEG/PLN 325	MAPS AND MAPMAKING USING GIS	3
GEG 425	FUNDAMENTALS OF GIS	3
GEG 485	INTERACTIVE AND WEB-BASED MAPPING	3
<i>Select three from the following:</i>		9
CIS 151	COMPUTER-BASED INFORMATION PROCESSING I	

GEG 405	URBAN ANALYSIS USING GIS
GEG 418	REMOTE SENSING
GEG 427	CORPORATE APPLICATIONS IN GIS
GEG 428	ENVIRONMENTAL ASSESSMENT AND PLANNING APPLICATIONS IN GIS
GEG 429	ADVANCED TOPICS IN GIS
<b>Total Credit Hours</b>	

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## Geography, B.A.

BA-AS GEG

### Geography and Planning Department Bachelor of Arts

Classroom Building A213  
(716) 878-6216

Geography is the study of location and temporal and spatial relationships between humans and their environment. The Geography B.A. provides students with a basic foundation of the discipline. Students can take a variety of courses to experience breadth in the field, or they can focus on a subfield in geography to gain depth.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		
<b>Required Courses (18 cr)</b>		
GEG 101	WORLD NATURAL ENVIRONMENTS	3
GEG 102	HUMAN GEOGRAPHY	3
GEG 325	MAPS AND MAPMAKING USING GIS	3
GEG 390	QUANTITATIVE METHODS IN GEOGRAPHY AND PLANNING	3
GEG 396	RESEARCH METHODS	3
<i>Select one course from the following:</i>		
GEG 300	WORLD REGIONAL GEOGRAPHY	
GEG 359	ARCTIC GEOGRAPHY FROM AN INUIT PERSPECTIVE	
GEG 360	GEOGRAPHY OF ASIA	
GEG 362	GEOGRAPHY OF THE UNITED STATES AND CANADA	
GEG 364	GEOGRAPHY OF EUROPE	
<b>Electives (21 cr)</b>		
<i>Seven additional courses in Geography. Students may, in consultation with their advisor, use these electives to develop a specialty concentration.</i>		
GEG/GES 241	METEOROLOGY	
GEG 300	WORLD REGIONAL GEOGRAPHY	
GEG 305	PRINCIPLES OF ECONOMIC GEOGRAPHY	

GEG 307	CONSERVATION AND ENVIRONMENTAL MANAGEMENT
GEG 309	URBAN GEOGRAPHY
GEG 310	URBAN TRANSPORTATION PLANNING
GEG 316	WATERSHED POLLUTION
GEG 359	ARCTIC GEOGRAPHY FROM AN INUIT PERSPECTIVE
GEG 360	GEOGRAPHY OF ASIA
GEG 362	GEOGRAPHY OF THE UNITED STATES AND CANADA
GEG 364	GEOGRAPHY OF EUROPE
GEG 365	SOIL SCIENCE AND MANAGEMENT
GEG 383	EXTREME WEATHER
GEG 385	PAST CLIMATES AND ENVIRONMENTS
GEG 386	WEATHER AND SOCIETY
GEG 405	URBAN ANALYSIS USING GIS
GEG 409	INDUSTRIAL GEOGRAPHY
GEG 416	GEOGRAPHIES OF DEVELOPMENT
GEG 418	REMOTE SENSING
GEG 419	GLOBALIZATION, TECHNOLOGY, COMPETITION, AND SERVICE ECONOMIES
GEG 421	WATERSHED ANALYSIS
GEG 423	BIOGEOGRAPHY
GEG 425	FUNDAMENTALS OF GIS
GEG 427	CORPORATE APPLICATIONS IN GIS
GEG 428	ENVIRONMENTAL ASSESSMENT AND PLANNING APPLICATIONS IN GIS
GEG 429	ADVANCED TOPICS IN GIS
GEG 478	GLOBAL CHANGE
GEG 485	INTERACTIVE AND WEB-BASED MAPPING

**Total Credit Hours 120**

## Geography Minor

GEG

### Geography and Planning

Classroom Building A213  
(716) 878-6216

The objective of this minor is to acquaint the student with the differences and similarities that exist from place to place on Earth's surface in both natural and cultural environments. It is designed to accommodate a range of interests from the very general to specific subject matter within geography. Education majors who would be involved with a social science curriculum would also find this minor beneficial.

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (12 credit hours)</b>		
GEG 101	WORLD NATURAL ENVIRONMENTS	3
GEG 102	HUMAN GEOGRAPHY	3
GEG 325	MAPS AND MAPMAKING USING GIS	3
Select one of the following Regional courses:		3
GEG 300	WORLD REGIONAL GEOGRAPHY	
GEG 359	ARCTIC GEOGRAPHY FROM AN INUIT PERSPECTIVE	
GEG 360	GEOGRAPHY OF ASIA	
GEG 362	GEOGRAPHY OF THE UNITED STATES AND CANADA	
GEG 364	GEOGRAPHY OF EUROPE	
<b>Electives (6 credit hours)</b>		
Two upper-division Geography courses selected by advisement		6
<b>Total Credit Hours</b>		<b>18</b>

## Geology Minor

GEO

### Earth Sciences and Science Education Department

SAMC 160  
(716) 878-6731

The geology minor requires a broad selection of courses in geology and earth sciences, chosen through advisement. It is designed for a diverse clientele, many of whom desire to strengthen their employability. Candidates for this program may include science majors contemplating a future in geophysics or geochemistry, students in environmental fields with a geological aspect, and students who may wish to be involved in land use planning.

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (7 credit hours)</b>		
GES 101	INTRODUCTORY GEOLOGY	3
GES 102	HISTORICAL GEOLOGY	3
GES 103	INTRODUCTORY GEOLOGY LABORATORY	1
<b>Electives (12-16 credit hours)</b>		
Select four upper-level geology (GES) courses by advisement		12-16
<b>Total Credit Hours</b>		<b>19-23</b>

## Gerontology Minor

GRN

### Psychology Department

Classroom Building C312

(716) 878-6215

The Gerontology Minor draws together courses from a number of academic disciplines around the theme of human aging. Students will learn about physical, social, and psychological changes that occur in adulthood; ways of addressing older adults' needs; and how to promote successful aging.

The Gerontology Minor is an interdisciplinary minor that is administered through the Psychology Department and includes the Health, Nutrition and Dietetics, Economics, Psychology, Social Work, Sociology, and Speech-Language Pathology departments. The minor is open to majors from any department and is seen as complementing the training the student receives in his or her major.

### Objectives of the Minor

- Students will acquire a core foundation in the study of aging as an interdisciplinary field.
- Students will have an opportunity to have an individualized experience in the field of aging that is tailored to their unique interests and /or career goals.
- Students will understand the breadth of the field of aging by being able to select from a broader array of elective coursework that reflects the multiple disciplines in the study of gerontology.

### Requirements of the Gerontology Minor

- Minor program requirements may not overlap more than 9 credit hours with a student's major program requirements.
- Students from any major may take the Gerontology Minor.
- Students must have a minimum 2.0 cumulative average for admission into the minor
- A maximum of 3 courses of transfer credit will be permitted.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours including prerequisites)</b>		
PSY 327	ADULT DEVELOPMENT AND AGING I (prerequisite: PSY 101) <sup>1</sup>	3
HEW 345	WELLNESS, FITNESS, AND AGING	3
<b>Electives Selected by Advisement (9-12 credit hours)</b>		
Select 9-12 credit hours (including prerequisites) from the following:		9-12
FIN 110	PERSONAL FINANCE	
FIN 345	ESTATE PLANNING	
HEW 225	INTRODUCTION TO DISEASE PREVENTION	
NFS 102	INTRODUCTORY NUTRITION	
PSY 388	PSYCHOLOGY OF DEATH AND DYING <sup>1</sup>	
PSY 427	ADULT DEVELOPMENT AND AGING II <sup>1</sup>	
SLP 220	INTRODUCTION TO COMMUNICATION DISORDERS	

SLP 405	COMMUNICATION DISORDERS II <sup>1</sup>
SOC 352	SOCIOLOGY OF AGING <sup>1</sup>
SWK 321	THE ELDERLY AND SOCIAL SERVICES
XXX 488	Internship
or	
XXX 495	Independent Study
<b>Total Credit Hours</b>	<b>18-21</b>

<sup>1</sup> Requires prerequisite. Consult adviser and Undergraduate Catalog.

## Graphic Design (B.F.A.)

BFA-AS GRD

### Art and Design Department Bachelor of Fine Arts (HEGIS 1009)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD) Accredited

The B.F.A. degree in Graphic Design is a studio-intensive program of study. This degree offers students a specialized studio-oriented education in preparation for advanced or graduate studies, or for beginning careers as professional designers.

Students begin with foundation courses in two-dimensional design, three-dimensional design, color, art history, and design history. The major is completed with courses in communication design and selected major electives. Internships are required of senior level majors.

The remaining credit hours are completed in required Intellectual Foundations courses and in other chosen studio courses.

All students entering the graphic design major enter with a bachelor of fine arts intent, and are required to pass a freshmen review for admission into the upper division. This review generally takes place at the end of the second semester for most majors (the review is administered at the end of the spring semester). New transfers must take this review as well. To continue in the B.F.A. degree program, a 2.75 GPA must be maintained in the major.

Transfer students are urged to submit their portfolios the semester before transfer in order to facilitate placement in departmental courses and/or for possible commit-to-major portfolio review. Please call the Art & Design Department for additional information.

The Art & Design Department reserves the right to retain students' work for official purposes, such as exhibitions, catalogs, teaching aids, or permanent collections. Students are expected to assume the costs of materials used in courses. Some studio courses may have an additional charge for materials used in class. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class.

The Art & Design Department may be in the process of curricular revision. Please refer to the college Web site or the department for updated information.

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Communication Design Major Requirements (79 credit hours)</b>		
<i>Foundation Courses (37 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
DES/AAD 103	INTRODUCTION TO THREE-DIMENSIONAL DESIGN	3
DES 277	COMPUTER GRAPHICS I	3
DES 314	HISTORY OF GRAPHIC DESIGN: INDUSTRIAL REVOLUTION TO THE PRESENT	3
DES 377	COMPUTER GRAPHICS II	3
DES 307	COLOR THEORY	3
DES 414	SENIOR SEMINAR/EXHIBITION	4
FAR/AAD 101	DRAWING I	3
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
FAR 220	INTRODUCTORY PHOTOGRAPHY	3
FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
<i>Major Courses (39 credit hours)</i>		
DES 270	VISUAL COMMUNICATION I	3
DES 271	LETTERING AND TYPOGRAPHY I	3
DES 370	VISUAL COMMUNICATIONS II	3
DES 374	ADVERTISING DESIGN	3-6
DES 378	WEB DESIGN 1	3
DES 379	MOTION DESIGN	3
DES 380	ILLUSTRATION	3
DES 382	DIGITAL 3D 1	3
DES 472	WEB DESIGN II	3
DES 473	GRAPHIC DESIGN	3-9
DES 488	INTERNSHIP	1-12
DES 489	MOTION DESIGN 2	3
<i>Studio elective: Select one 200 or 300 level studio course from any program except Graphic Design in the Art &amp; Design Department.(3 credit hours)</i>		
<b>All College Electives</b>		
2-8 credit hours		2-8
<b>Total Credit Hours</b>		<b>120</b>

## Health and Wellness (B.S.)

BS-SP HEW

## Health, Nutrition, and Dietetics Department Bachelor of Science (HEGIS 0837)

HOUS 202  
(716) 878-6501

The major prepares students with the knowledge and skills needed to assume roles as health and wellness professionals in a variety of settings, such as: not-for-profit community health agencies; college health promotion; government public health agencies; corporate or worksite wellness; private business or personal training consultant; and health care organizations. Students are eligible to become Certified Health Education Specialists (CHES).

### Admission Requirements

Applicants must have a minimum cumulative GPA of 2.5.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Health and Wellness Major Requirements (51 credit hours)</b>		
<i>Required Courses (39 credit hours)</i>		
BIO 100 or BIO 111	PRINCIPLES OF BIOLOGY FOUNDATIONS OF BIOLOGY	3
BIO 308	SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY	3
HEW 200	FITNESS FOR LIVING	2
HEW 204	PERSONAL HEALTH	3
HEW 225	INTRODUCTION TO DISEASE PREVENTION	3
HEW 305	COMMUNITY HEALTH/ WELLNESS	3
HEW 312	METHODS AND MATERIALS IN HEALTH AND WELLNESS	3
HEW 320 or HEW 425	PSYCHOACTIVE DRUGS AND HEALTH ALCOHOL PROBLEMS	3
HEW 326	INTRODUCTION TO HEALTH DATA VISUALIZATION AND ANALYTICS	3
or HEW 350	INTRODUCTION TO EPIDEMIOLOGY	
HEW 401	ASSESSMENT AND EVALUATION IN HEALTH WELLNESS	3
HEW 411	CRITICAL ISSUES IN HEALTH AND WELLNESS	3
HEW 412 or HEW 488	COMMUNITY HEALTH PROMOTION PROGRAMS INTERNSHIP	3
HEW 430	DIMENSIONS OF HUMAN SEXUALITY	3
NFS 102	INTRODUCTORY NUTRITION	3
<i>Electives (12 credit hours)</i>		
Select from the following:		12
HEW 304	EXERCISE PHYSIOLOGY I	
HEW 306	EXERCISE PHYSIOLOGY II	

HEW 308	WOMEN'S HEALTH ISSUES
HEW 310	HEALTH STANDARDS AND EMERGENCY CARE
HEW 320	PSYCHOACTIVE DRUGS AND HEALTH (*)
HEW 322	PRINCIPLES OF HEALTH PROMOTION SCIENCES (*)
HEW 326	INTRODUCTION TO HEALTH DATA VISUALIZATION AND ANALYTICS
HEW 345	WELLNESS, FITNESS, AND AGING
HEW 350	INTRODUCTION TO EPIDEMIOLOGY (*)
HEW 412	COMMUNITY HEALTH PROMOTION PROGRAMS (*)
HEW 425	ALCOHOL PROBLEMS (*)
HEW 426	APPLIED DATA ANALYSIS FOR HEALTH PROMOTION SCIENCES
HEW 488	INTERNSHIP (*)
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS
PSY 355	LIFESPAN DEVELOPMENTAL PSYCHOLOGY
PSY 376	HEALTH PSYCHOLOGY
SOC 100	INTRODUCTION TO SOCIOLOGY

**All College Electives**

39-45 credit hours 39-45

**Total Credit Hours 120**

## History (B.A.)

BA-AS HIS

**History and Social Studies Education Department  
Bachelor of Arts (HEGIS 2205)**

Classroom Building C205  
(716) 878-5412

The program ensures both a knowledge and an understanding of the foundations of the development of humankind, stimulates thinking about interaction of ideas, develops facility with written and verbal expression, increases confidence in articulating ideas, and encourages the critical awareness of self so important to an educated individual. Special emphasis is placed on the development of the abilities to analyze, synthesize, and communicate.

A departmental honors program is also available. Students should contact the department for additional information.

**Program Requirements**

Code	Title	Credit Hours
	Intellectual Foundations Requirements (p. )	
	33-39 credit hours	33-39

**History Major Requirements (39 credit hours)**

*American History ( 6 credit hours)*

HIS 106	HISTORY OF AMERICAN LIFE I	3
HIS 107	HISTORY OF AMERICAN LIFE II	3
<i>European History (6 credit hours)</i>		
Select two from the following: 6		
HIS 115	FOUNDATIONS OF WESTERN CIVILIZATION	
HIS 116	EUROPE SINCE 1500	
HIS 117	TWENTIETH-CENTURY EUROPE	
<i>World History (6 credit hours)</i>		
Two electives in Asian, African, Middle Eastern, or Latin American history 6		
<i>Research and Writing Seminar (3 credit hours)</i>		
HIS 300	RESEARCH AND WRITING SEMINAR	3
<i>Historiography Seminar (3 credit hours)</i>		
HIS 400	SENIOR SEMINAR IN HISTORY	3
HIS 490	SENIOR SEMINAR IN HISTORIOGRAPHY	3
<i>Upper-Division History Electives (15 credit hours)</i>		
Three 300-level history courses 9		
Two 400-level history courses 6		
<b>All College Electives</b>		
42-48 credit hours 42-48		
<b>Total Credit Hours 120</b>		

## History Minor

HIS

**History and Social Studies Education**

Classroom Building C205  
(716) 878-6216

Students may choose one of two alternatives in the History minor: American History or European History. A History minor can help students understand how historians find evidence about the ways people once lived, and create meaningful interpretations of the past that are relevant to modern life. Seeing how individuals in the past made choices that impact us today, students can better understand how such choices contribute to change, now and in the future. A minor in the study of history can be of great value in a career because students learn to conduct research, write well, and think critically.

**Program Requirements**

American History Minor

Code	Title	Credit Hours
<b>Required Courses (6 credit hours)</b>		
HIS 106	HISTORY OF AMERICAN LIFE I	3
HIS 107	HISTORY OF AMERICAN LIFE II	3
<b>Upper Division Electives (12 credit hours)</b>		
Four upper-division American history courses 12		
<b>Total Credit Hours 18</b>		

European History Minor

Code	Title	Credit Hours
<b>Required Courses (6 credit hours)</b>		
HIS 116	EUROPE SINCE 1500	3
HIS 115	FOUNDATIONS OF WESTERN CIVILIZATION	3
or HIS 117 TWENTIETH-CENTURY EUROPE		
<b>Upper Division Electives (12 credit hours)</b>		
Four upper-division European history courses		12
<b>Total Credit Hours</b>		<b>18</b>

# Hospitality Administration (B.S.)

BS-SP HTR

## Hospitality and Tourism Department Bachelor of Science (HEGIS 1307)

Accreditation Commission for Programs in Hospitality Administration (ACPHA) Accredited

Caudell 334  
(716) 878-5913

The hospitality and tourism curriculum prepares graduates for management positions in various aspects of the hospitality industry. Career opportunities exist for: graduates in special events and convention services; cruise lines; sales and marketing; corporate and contract services; airlines and travel; resorts and lodging; food and beverage, culinary, food trucks and menu development; catering and retail; clubs; education and training; healthcare and assisted living; community relations; business development; revenue, finances and purchasing; human resources, customer service; wines and spirits, and other components of industry/business.

The department's mission is to educate and develop proven hospitality professionals by integrating a strong core curriculum with a deliberate emphasis on experiential learning. The department is defined by its extraordinary focus on student development and is firmly grounded in producing graduates that excel in communication, teamwork, professionalism, and problem-solving.

### Admission Requirements

Transfer or undeclared students desiring to major in this program must have a minimum GPA of 2.0 in previous college credits.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39

### Hospitality Administration Major Requirements (42 credit hours)

<i>Required Courses (30 credit hours)</i>		
HTR 110	INTRODUCTION TO HOSPITALITY AND TOURISM	3

HTR 300	FOOD AND BEVERAGE MANAGEMENT	4
HTR 350	COMPUTER APPLICATIONS FOR HOSPITALITY	3
HTR 370	COST CONTROLS IN HOSPITALITY	3
HTR 380	ADVANCED TRAINING IN HOSPITALITY	3
HTR 390	STRATEGIC MARKETING IN HOSPITALITY	3
HTR 455	ADVANCED HUMAN RESOURCE MANAGEMENT IN HOSPITALITY	3
HTR 470	LEGAL ISSUES IN HOSPITALITY	3
HTR 480	PRACTICUM IN HOSPITALITY OPERATIONS	4
HTR 485	SEMINAR IN HOSPITALITY	1

### Concentration Courses (12 credit hours)

Select one of the following concentrations: 12

Restaurant and Institutional Management Concentration (p. 135)

Culinary Arts Concentration (p. )

Hotel Tourism Management Concentration (p. 136)

### Electives in Hospitality Administration

HTR 100	MULTICULTURAL FOODS	
HTR 200	SANITATION AND SAFETY IN FOOD SERVICE	
HTR 305	APPLIED CULINARY ARTS	
HTR 318	CULTURAL TOURISM	
HTR 330	FUNDAMENTALS OF BAKESHOP PRODUCTION	
HTR 335	WINE ESSENTIALS	
HTR 340	INDUSTRY EXPERIENCE	
HTR 348	TOURISM AND WORLD TRAVEL	
HTR 361	PRINCIPLES OF MANAGEMENT IN FOOD SERVICE	
HTR 365	MENU DESIGN AND DEVELOPMENT	
HTR 368	HOTEL OPERATIONS	
HTR 375	EVENTS MANAGEMENT	
HTR 385	PRIVATE CLUB MANAGEMENT	
HTR 400	CATERING MANAGEMENT	
HTR 408	CONVENTIONS, MEETINGS, AND EXPOSITIONS	
HTR 418	TOURISM MANAGEMENT	
HTR 468	HOTEL MANAGEMENT	

### All College Electives

39-45 credit hours 39-45

**Total Credit Hours 120**

### Restaurant and Institutional Management Concentration

Code	Title	Credit Hours
HTR 100	MULTICULTURAL FOODS	3
HTR 200	SANITATION AND SAFETY IN FOOD SERVICE	3



HTR 361	PRINCIPLES OF MANAGEMENT IN FOOD SERVICE	3
HTR 400	CATERING MANAGEMENT	3

Required: 400 hours of hospitality-related industry experience.

#### Culinary Arts Concentration

Code	Title	Credit Hours
HTR 305	APPLIED CULINARY ARTS	3
HTR 330	FUNDAMENTALS OF BAKESHOP PRODUCTION	3
HTR 365	MENU DESIGN AND DEVELOPMENT	3
HTR 400	CATERING MANAGEMENT	3

Required: 400 hours of hospitality-related industry experience.

#### Hotel Tourism Management Concentration

Code	Title	Credit Hours
HTR 368	HOTEL OPERATIONS	3
HTR 408	CONVENTIONS, MEETINGS, AND EXPOSITIONS	3
HTR 418	TOURISM MANAGEMENT	3
HTR 468	HOTEL MANAGEMENT	3

Required: 400 hours of hospitality-related industry experience.

## Hospitality Administration Minor

HTR

### Hospitality and Tourism Department

Caudell 334  
(716) 878-5913

Students are required to take 18 credit hours, distributed in the following manner, to fulfill the requirements of a minor in hospitality and tourism.

Courses within the minor provide for both general and specialized preparation.

### Admission Requirements

Hospitality Administration minor guidelines:

- A minimum cumulative grade point average of 2.0 is required for admission to the hospitality minor program, which consists of 18 credit hours.
- A maximum of two lower-division (100- and 200-level) courses may be accepted.
- A maximum of two courses may be transferred.
- All prerequisite courses for the hospitality major are included in the minor program.
- Only degree-seeking, matriculated students may be accepted into the minor program.
- The minor program is not available to students majoring in hospitality administration

### Program Requirements

Students are required to take 18 credit hours, distributed in the following manner, to fulfill the requirements of a minor in hospitality and tourism:

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
HTR 110	INTRODUCTION TO HOSPITALITY AND TOURISM	3
HTR 368	HOTEL OPERATIONS	3
HTR 400	CATERING MANAGEMENT	3
<b>Electives Selected by Advisement (9 credit hours)</b>		
Select three from the following: 9		
HTR 100	MULTICULTURAL FOODS	
HTR 200	SANITATION AND SAFETY IN FOOD SERVICE	
HTR 305	APPLIED CULINARY ARTS	
HTR 330	FUNDAMENTALS OF BAKESHOP PRODUCTION	
HTR 335	WINE ESSENTIALS	
HTR 365	MENU DESIGN AND DEVELOPMENT	
HTR 375	EVENTS MANAGEMENT	
HTR 380	ADVANCED TRAINING IN HOSPITALITY	
HTR 385	PRIVATE CLUB MANAGEMENT	
HTR 390	STRATEGIC MARKETING IN HOSPITALITY	
HTR 408	CONVENTIONS, MEETINGS, AND EXPOSITIONS	
HTR 418	TOURISM MANAGEMENT	
HTR 468	HOTEL MANAGEMENT	
<b>Total Credit Hours</b>		<b>18</b>

## Indigenous Studies Minor

ING

### Anthropology Department

Classroom Building B107  
(716) 878-6110

This interdisciplinary minor includes the cultures, histories, languages, literatures, and contemporary legal and political issues of the indigenous cultures of North America. Electives allow investigation of Central and South America. The Indigenous Studies minor draws on information presented in Anthropology, History, English, Elementary Education and Reading, Geography and Planning, Communication, and Modern and Classical Language courses.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (15 credit hours)</b>		
ANT 101	UNDERSTANDING CULTURE	3
ANT 300	INDIGENOUS PEOPLES OF WESTERN NORTH AMERICA	3

or ANT 301	INDIGENOUS PEOPLES OF EASTERN NORTH AMERICA	
ENG 353	AMERICAN INDIAN LITERATURE	3
ANT 499	INDEPENDENT STUDY	3-9
Plus 3 credit hours:	Internship, independent project, OR independent study related to Indigenous peoples of the Americas in a participating department including Anthropology, History & Social Studies Education, Geography & Planning, English, Elementary Education & Reading, Modern & Classical Languages & Communication.	3

**Electives (6 credit hours)**

ANT 300	INDIGENOUS PEOPLES OF WESTERN NORTH AMERICA (Which ever one not taken as part of required courses)	
or ANT 301	INDIGENOUS PEOPLES OF EASTERN NORTH AMERICA	
ANT 310	MESOAMERICAN ARCHAEOLOGY	
ANT 312	ARCHAEOLOGY OF NORTH AMERICA	
ANT 341	INDIGENOUS ART OF NORTH AMERICA	
GEG 359	ARCTIC GEOGRAPHY FROM AN INUIT PERSPECTIVE	
HIS 385	AZTEC AND MAYA HISTORY	
HIS 386	HISTORY OF THE INCA EMPIRE	
SSE 350/ HIS 500	THE TRADITIONS OF THE PEOPLE OF THE LONGHOUSE (THE HO DE NO SAU NEE)	

**Total Required Credit Hours 21 cr**

NOTE: Anthropology majors may count ONLY ANT 101 for both this minor and the major program.

## Individualized Studies (B.S.)

*Evening study available.*

BS-UC INS

### Bachelor of Science (HEGIS 4901)

South Wing 310  
(716) 878-5303

The individualized studies program provides students with a vehicle to design their own unique programs of study. The program allows students to investigate a theme, an issue, a problem, or a particular career interest and to formulate a specific curriculum accordingly. Individualized studies provides appreciable academic advisement so that students can integrate and synthesize several academic fields.

The program offers students a choice between two distinct options. Students may combine any two compatible minor programs (Track I) or develop their own programs of study by drawing upon the offerings of two to four different academic fields (Track II). Students in both tracks complete all collegewide degree expectations: the Intellectual Foundations requirements and unrestricted electives. Both tracks require

a senior-level integrating research project as a culminating degree experience.

Since individualized studies is particularly attractive to working adult students, it recognizes and embraces college-level experiential learning generated outside the formal classroom.

### Admission Requirements

Entering students must have a minimum 2.3 GPA and must expect to complete a minimum of 36 credit hours under individualized studies advisement once accepted into the major.

### Program Requirements

Code	Title	Credit Hours
	Intellectual Foundations Requirements (p. )	
39-66	credit hours	39-66
<b>Individualized Studies Major Requirements (39-45 credit hours)</b>		
	Select one from the following tracks and complete the Culminating Project:	39-45
	Track I: Two minors	
	or	
	Track II: Two to four academic fields, maximum of six courses per discipline	
	Culminating Project 495	3
<b>All College Electives</b>		
	9-42 credit hours	9-42
<b>Total Credit Hours</b>		<b>120</b>

## Industrial Technology (B.S.)

*Evening study available.*

BS-SP TEC

### Engineering Technology Department Bachelor of Science (HEGIS 0925)

Accreditation: Association of Technology Management and Applied Engineering (ATMAE.org (<https://www.ATMAE.org>))

Technology Building 126  
(716) 878-6017  
[engineeringtechnology.buffalostate.edu](https://engineeringtechnology.buffalostate.edu) (<https://engineeringtechnology.buffalostate.edu/>)

The industrial technology program, through its two concentrations, provides students with the opportunity to develop a specialty within a broader framework of technical operations knowledge. By selecting the manufacturing concentration, the student specializes in direct manufacturing support of a technical or managerial nature. Knowledge of management principles, physical sciences, technology of industry, and liberal arts is employed to optimize manufacturing processes, materials, and personnel. The quality concentration allows the student to develop the ability to assist the product or service organization in obtaining the maximum level of quality performance in a lean environment. This concentration requires a professional

internship that places the student in a specialty position in a local organization as a culminating activity.

Program graduates have filled positions as industrial engineers, manufacturing engineers, quality-assurance specialists, directors of technology, production/lean operations managers, corporate trainers, cost estimators, purchasing managers, first line supervisors, supply chain managers, distribution supervisors, safety engineers, drafting specialists, technical writers, web masters, and technical sales and marketing specialists.

### Admission Requirements

This program accepts freshmen, sophomores, and transfer students.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. 33-39)		
		33-39
<b>Technology/Core Courses (24 credit hours)</b>		
TEC 101	TECHNICAL DRAWING	3
TEC 201	MATERIALS PROCESSING	3
TEC 311	MATERIALS SCIENCE AND TESTING	3
TEC 312	MATERIALS MANAGEMENT	3
TEC 313	STATISTICAL QUALITY CONTROL	3
TEC 314	ELECTROMECHANICS	3
TEC 402	ERGONOMICS	3
TEC 403	SYSTEMS ANALYSIS	3
<b>Concentration Requirements (18 credit hours)</b>		
Select a concentration from the following:		18
Manufacturing Concentration (p. 138)		
Quality Concentration (p. 138)		
<b>Required in Other Fields for Accreditation (12 credit hours)</b>		
Core Math		3
Core Chemistry		3
MAT 124	FUNCTIONS AND MODELING II	3
PHY 107	GENERAL PHYSICS I	4
<b>All College Electives</b>		
27-33 credit hours		27-33
<b>Total Credit Hours</b>		<b>120</b>

#### Manufacturing Concentration

Code	Title	Credit Hours
TEC 400/ BUS 320	MARKETING	3
TEC 302	CAD/CAM (COMPUTER AIDED DRAFTING/COMPUTER AIDED MANUFACTURING)	3
TEC 351	ENERGY SYSTEMS	3
TEC 404	INDUSTRIAL SYSTEMS APPLICATIONS	3

TEC 405	MANUFACTURING TECHNOLOGY	3
TEC 465	SAFETY MANAGEMENT	3
Quality Concentration		
Code	Title	Credit Hours
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS	3
SPC 307	GROUP COMMUNICATON	3
TEC 200	TOTAL QUALITY MANAGEMENT	3
TEC 321	MEASUREMENT SYSTEMS	3
TEC 323	QUALITY IMPROVEMENT THROUGH DESIGN OF EXPERIMENTS	3
TEC 488	QUALITY INTERNSHIP	3

## Intelligence Analysis Minor

INA

### Criminal Justice Minor

Classroom Building C114  
(716) 878-4517

Intelligence Analysis, as an academic minor area of study, provides students with an understanding of the theoretical, conceptual, and technological dimensions of intelligence analysis. The intelligence community seeks people who have an interest in history, local and national government, current world events, geographic and planning knowledge, as well as those who are curious and think broadly and critically about a problem. Through a multidisciplinary course of study, students will gain an extensive understanding of local, regional, national, and international issues that will enhance their analysis of critical problems.

The Intelligence Analysis minor is open to all students at Buffalo State who have a GPA of 2.5 or better. The Intelligence Analysis Minor is intended to provide a structured intellectual framework for students interested in pursuing analyst careers in government intelligence agencies, military intelligence or law enforcement. The minor may also appeal to the traditional liberal arts student who is interested in a multidisciplinary, analytical program of study. Elective classes in the minor are grouped into two tracks (national security and crime analysis) depending on student interests and career goals. The minor consists of 21 credit hours taken from a multidisciplinary mix of departments. A minor may include no more than half of its credit hours at the lower-division level. A maximum of three courses of transfer credit will be permitted.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (12 credit hours)</b>		
CRJ 250	INTRODUCTION TO INTELLIGENCE ANALYSIS	3
CRJ 355	CRIME ANALYSIS	3
CRJ 450	TERRORISM AND CRIMINAL JUSTICE	3

CRJ 455 ADVANCED INTELLIGENCE ANALYSIS 3

**Electives (9 credit hours)**

Select one track from the following: 9

*National Security Track*

Select three from the following:

GEG 102	HUMAN GEOGRAPHY
GEG 325	MAPS AND MAPMAKING USING GIS
HIS 313/ PSC 345	POLITICS AND HISTORY OF THE MIDDLE EAST
HIS 372	AMERICAN FOREIGN POLICY IN THE FAR EAST
PHI 103	INTRODUCTION TO LOGIC
PSC 230	INTERNATIONAL RELATIONS
PSC 330	AMERICAN FOREIGN POLICY
PSC 335	INTERNATIONAL RELATIONS OF THE MIDDLE EAST
REL 321	WORLD RELIGIONS
SOC 328	SOCIOLOGY OF RELIGION
SOC 350	POWER, CLASS, AND INEQUALITY

*Crime Analysis Track*

Select three from the following:

BUS 212	INTRODUCTION TO ACCOUNTING
GEG 309	URBAN GEOGRAPHY
GEG 325	MAPS AND MAPMAKING USING GIS
PLN 315	PRINCIPLES OF URBAN AND REGIONAL PLANNING
PHI 103	INTRODUCTION TO LOGIC
PSC 415	URBAN PUBLIC POLICY
SOC 240	ANALYZING SOCIAL PROBLEMS
SOC 380	SOCIOLOGY OF CRIME (Prerequisites SOC 100)

**Total Credit Hours 21**

## Interior Design (B.F.A.)

BFA-AS INT

**Art and Design Department  
Bachelor of Fine Arts (HEGIS 1009)**

Upton Hall 402  
(716) 878-6032

Council for Interior Design Accreditation (CIDA) Accredited  
National Association of Schools of Art and Design (NASAD) Accredited

The Interior Design B.F.A. degree offers students a specialized studio-oriented education in preparation for advanced or graduate studies, or for beginning careers as professional interior designers. Students gain a thorough knowledge of design processes and technical skills, including computer-aided design and traditional drafting and rendering. Construction methods, lighting design, materials specification,

and color use are emphasized to support specializations within the major. Studios offer design exploration in spatial experimentation, residential design, retail design, public buildings, office planning, and industry standards for sustainable design principles, and culminates in the Undergraduate Thesis Project. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class

Interior design graduates are prepared for careers in independent practice and employment in interior design and architectural firms, institutions, corporations, and other settings. Following completion of this program, plus two years interior design work experience, students are eligible to apply and sit for the professional, nationally recognized NCIDQ (National Council for Interior Design Qualification) licensing exam. They may then apply for a "Certified Interior Designer" designation and the right to practice in New York State.

The Interior Design Department is committed to the intellectual, personal, and professional growth of the students. Through varied and increasingly complex coursework, coupled with a strong community-based project component, the students and faculty have and will continue to enhance the region in terms of residential, health care, and commercial designs, as well as culturally sensitive and public-interest projects. These projects connect the students, faculty, and community in a dynamic relationship, inspire students to expand their horizons, and create life-long learners. The program is rigorous and comprehensive, resulting in professional and innovative designers actively sought after by regional and national employers.

### Requirements for Acceptance to Major

1. Successful completion of the Skills Competency Exam following IDE 151, IDE 152, and IDE 153. The one-day exam evaluates entry-level ability to visualize, design, and communicate spatial solutions to a simple problem through scaled drafting, rendering, and model-building.
2. A minimum cumulative GPA of 2.6 after the freshman year.
3. Transfer Students: Acceptance to the major is determined after reviewing a portfolio of work during an interview with the chair of the Interior Design Department; transcripts are evaluated on a case-by-case basis.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Interior Design Major Requirements (81 credit hours)</b>		
<i>Required Art/Design History Courses (21 credit hours)</i>		
FAR 250	ART HISTORY I	3
FAR 251	ART HISTORY II	3
IDE 103	DIGITAL PRESENTATION METHODS	3
IDE 104	ELEMENTS AND PRINCIPLES OF INTERIOR DESIGN	3

IDE 205	HISTORY OF INTERIOR DESIGN AND ARCHITECTURE I	3
IDE 254	HISTORY OF INTERIOR DESIGN AND ARCHITECTURE II	3
SPC 205	INTRODUCTION TO ORAL COMMUNICATION	3
<i>Required Interior Design Courses (60 credit hours)</i>		
IDE 101	INTRODUCTION TO INTERIOR DESIGN	3
IDE 151	MECHANICAL AND PERSPECTIVE DRAWING	3
IDE 152	INTRODUCTION TO COLOR RENDERING	3
IDE 153	SPATIAL EXPLORATIONS AND MODEL BUILDING	3
IDE 201	INTERIOR DESIGN I	3
IDE 202	CONSTRUCTION FUNDAMENTALS I	3
IDE 203	FURNITURE THEORY AND APPLICATION	3
IDE 204	BUILDING MATERIALS - SELECTION, SPECIFICATIONS, AND ESTIMATING	3
IDE 251	INTERIOR DESIGN II	3
IDE 252	CONSTRUCTION FUNDAMENTALS II	3
IDE 301	INTERIOR DESIGN III	3
IDE 302	COMPUTER APPLICATIONS FOR INTERIOR DESIGN I	3
IDE 303	CONSTRUCTION DOCUMENTATION AND INTERIOR DETAILING	3
IDE 351	INTERIOR DESIGN IV	3
IDE 352	COMPUTER APPLICATIONS FOR INTERIOR DESIGN II	3
IDE 355	LIGHTING DESIGN	3
IDE 401	INTERIOR DESIGN V	1-3
IDE 451	INTERIOR DESIGN VI THESIS STUDIO	3
IDE 488	INTERIOR DESIGN INTERNSHIP	3
<b>All College Electives</b>		
0-6 credit hours		0-6
<b>Total Credit Hours</b>		<b>120</b>

## Interior Design Studies Minor

IDS

### Art and Design Department

Upton Hall 402  
(716) 878-6032

In the Interior Design Studies minor, students will learn the underlying elements and principles of interior design, themes and issues in furniture theory, and interior design and architecture history.

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (21 credit hours)</b>		
IDE 101	INTRODUCTION TO INTERIOR DESIGN	3
IDE 104	ELEMENTS AND PRINCIPLES OF INTERIOR DESIGN	3
IDE 202	CONSTRUCTION FUNDAMENTALS I	3
IDE 203	FURNITURE THEORY AND APPLICATION	3
IDE 205	HISTORY OF INTERIOR DESIGN AND ARCHITECTURE I	3
IDE 252	CONSTRUCTION FUNDAMENTALS II	3
IDE 254	HISTORY OF INTERIOR DESIGN AND ARCHITECTURE II	3
<b>Total Credit Hours</b>		<b>21</b>

## International Economics Minor

IEC

### Economics and Finance Department

Classroom Building B207  
(716) 878-4606

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
ECO 201	PRINCIPLES OF MACROECONOMICS	3
ECO 202	PRINCIPLES OF MICROECONOMICS	3
ECO 305	STATISTICS FOR ECONOMICS (May substitute MAT 311)	3
<b>Electives (12 credit hours)</b>		
Select four from the following:		12
ECO 307	INTERMEDIATE MICROECONOMICS	
ECO 308	INTERMEDIATE MACROECONOMICS	
ECO 401	INTERNATIONAL ECONOMICS	
ECO 403	COMPARATIVE ECONOMIC SYSTEMS	
ECO 404	ECONOMIC DEVELOPMENT	
<b>Total Credit Hours</b>		<b>21</b>

**Important policy reminder:** Current College policy states that a maximum of 3 courses from a student's academic major can be used to fulfill the requirements of a minor. For example, if a Business major earns the credits for the required Business courses of Principles of Macroeconomics, Economic Statistics and Corporation Finance, only THREE

of these courses can be used to satisfy the requirements of an Economics Minor.

# International Relations (B.A.)

BA-AS INR

## Political Science Department Bachelor of Arts (HEGIS 2207)

Classroom Building B218  
(716) 878-6116

International relations (IR) focuses on understanding the interactions and interconnectedness of nation-states and other non-state participants in international affairs. IR practitioners investigate the crucial global issues and agendas of our times such as international and intrastate conflicts, sustainable development, terrorism, foreign policy, international trade and economic integration, international development, and the protection of human dignity. IR is one of the fastest growing disciplines within political science, and is the second largest IR discipline next to American politics.

The IR program challenges students to think with diverse world views and intense study of current global events. The program equips students for future careers in foreign service, nonprofit work, international business, and global governance. It also offers training in foreign language skills, analytic empirical analysis skills, and international field experience either through an internship or a study-abroad program.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39

### International Relations Major Requirements (48 credit hours)

Required Courses (24 credit hours)		
PSC 101	INTRODUCTION TO GOVERNMENT AND POLITICS	3
PSC 203	POLITICAL ANALYSIS	3
PSC 204	POLITICAL STATISTICS	3
PSC 230	INTERNATIONAL RELATIONS	3
PSC 330	AMERICAN FOREIGN POLICY	3
PSC 352	HISTORY OF POLITICAL THOUGHT II	3
PSC 399	RESEARCH SKILLS	3
PSC 470	SENIOR SEMINAR	3
or PSC 488	INTERNSHIP	

*Area Studies Electives (6 credit hours)*  
Select two from the following: 6

GEG 364	GEOGRAPHY OF EUROPE	
PSC 240	EUROPEAN POLITICAL SYSTEMS	
or PSC 34	GOVERNMENT, POLITICS, AND POLICIES OF THE EUROPEAN UNION	
PSC 333	AFRICAN INTERNATIONAL RELATIONS	
PSC 335	INTERNATIONAL RELATIONS OF THE MIDDLE EAST	

or PSC 34	POLITICS AND HISTORY OF THE MIDDLE EAST	
PSC 336	LATIN AMERICA IN WORLD POLITICS	
PSC 340	POLITICS OF DEVELOPING COUNTRIES	
PSC 342	RUSSIAN POLITICS	
GEG 360	GEOGRAPHY OF ASIA	

*Concentrations (12 credit hours)*  
Students are required to complete one of the following concentrations: 12

Peace and Conflict (p. 141)	
Sustainable Development (p. 141)	

*Electives (0-6 credit hours)*  
Students who receive foreign language exemptions should take additional International Relations or Comparative courses. 0-6

Note: Courses not used to fulfill Area Studies Electives and Concentrations may also be used as general electives in International Relations.

INE 390	STUDY ABROAD (INTERNATIONAL EDUCATION)	
PSC 495	SPECIAL PROJECT	
PSC 497	WASHINGTON SEMESTER	
PSC 499	INDEPENDENT STUDY	

**All College Electives**  
44-50 credit hours 44-50

**Total Credit Hours 120**

Peace and Conflict Concentration  
**Code Title Credit Hours**  
Select four from the following: 12

PSC 210	THE AMERICAN PRESIDENCY	
PSC 302	INTERNATIONAL CONFLICT AND PEACEFUL RESOLUTION	
PSC 308	INTERNATIONAL ORGANIZATIONS AND INTERNATIONAL LAW	
PSC 309	INTERNATIONAL POLITICAL ECONOMY	
PSC 337	POLITICS OF GLOBALIZATION	

**Total Credit Hours 12**

Sustainable Development Concentration  
**Code Title Credit Hours**  
Select four from the following: 12

GEG 101	WORLD NATURAL ENVIRONMENTS	
GEG 300	WORLD REGIONAL GEOGRAPHY	
GEG 303	GLOBAL CLIMATOLOGY	
or GEG 30	CONSERVATION AND ENVIRONMENTAL MANAGEMENT	
GEG 478	GLOBAL CHANGE	

PSC 305	ENVIRONMENTAL POLICY	
<b>Total Credit Hours</b>		<b>12</b>

## International Relations Minor

IRE

### Political Science Department

Classroom Building B218  
(716) 878-6116

The international relations minor primarily focuses on the interactions and interconnectedness of nation-states at the international level, but also encompasses other participants in international affairs, such as international organizations, non-governmental organizations, sub-national entities, and individual citizens. The minor emphasizes the conceptual and methodological tools used to examine international relations and investigates the crucial global issues and agendas of our time. These global issues include international and local conflicts, terrorism, international trade and economic integration, international development, international organizations, and the protection of human dignity.

Students will be challenged with evaluating opposing world views and contentious issues. Upon the completion of this program, students will be better prepared to enter into a professional career or further their education, armed with analytical thinking and writing skills, and develop a broader and more informed vision of international relations.

### Program Requirements

Code	Title	Credit Hours
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#### Required Courses (9 credit hours)

PSC 230	INTERNATIONAL RELATIONS	3
PSC 330	AMERICAN FOREIGN POLICY	3
GEG 300	WORLD REGIONAL GEOGRAPHY	3

#### Electives (9 credit hours)

Select 9 credit hours (at least one from International Relations and one from Comparative Politics):

##### *International Relations*

PSC 302	INTERNATIONAL CONFLICT AND PEACEFUL RESOLUTION	
PSC 305	ENVIRONMENTAL POLICY	
PSC 306	POLITICS OF ENERGY	
PSC 308	INTERNATIONAL ORGANIZATIONS AND INTERNATIONAL LAW	
PSC 309	INTERNATIONAL POLITICAL ECONOMY	
PSC/AAS 333	AFRICAN INTERNATIONAL RELATIONS	
PSC 335	INTERNATIONAL RELATIONS OF THE MIDDLE EAST	
PSC 336	LATIN AMERICA IN WORLD POLITICS	
PSC 337	POLITICS OF GLOBALIZATION	

##### *Comparative Politics*

PSC 240	EUROPEAN POLITICAL SYSTEMS	
PSC 340	POLITICS OF DEVELOPING COUNTRIES	
PSC 341	GOVERNMENT, POLITICS, AND POLICIES OF THE EUROPEAN UNION	
PSC 342	RUSSIAN POLITICS	
PSC 345/ HIS 313	POLITICS AND HISTORY OF THE MIDDLE EAST	

**Total Credit Hours** **18**

## Italian Minor

ITA

### Modern and Classical Languages

Buckham B234  
(716) 878-5414

Whether you are thinking about an international career or just yearn for a life of travel, a minor in Italian can prepare you for the world ahead, or signal to employers and graduate schools that you are ready for international opportunities. A minor involves taking six courses, as described below, and can augment your major program.

### Program Requirements

Code	Title	Credit Hours
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#### Required Courses (6-18 credit hours)<sup>1</sup>

ITA 301	ITALIAN CONVERSATION AND COMPOSITION	3
ITA 302	ITALIAN CONVERSATION AND COMPOSITION	3
ITA 101	BEGINNING ITALIAN I	3
ITA 102	BEGINNING ITALIAN II	3
ITA 201	INTERMEDIATE ITALIAN I	3
ITA 202	INTERMEDIATE ITALIAN II	3

#### Electives (3-15 credit hours)

##### *Areas of Advanced Study*

Select 3-15 credit hours from the following: 3-15

ITA 306	CONTEMPORARY ITALIAN CIVILIZATION	
ITA 307	SURVEY OF ITALIAN LITERATURE	
ITA 308	SURVEY OF ITALIAN LITERATURE	
ITA 410	MODERN ITALIAN LITERATURE	
ITA 450	DIRECTED READINGS I	
ITA 451	DIRECTED READINGS II	

**Total Credit Hours** **21**

<sup>1</sup> Students who begin with ITA 101 must select one course within the advanced study area. Students who begin with ITA 102 must select two courses within the advanced study area. Students who begin with ITA 201 must select three courses within the advanced study area. Students who begin with ITA 202 or higher must select four or more courses from the advanced study area for a total of 21 credits.

Courses in English translation must have the readings done in Italian, exams and papers must be written in Italian for credit towards minor.

## Journalism (B.A.)

BA-AS JBS

### Communication Department Bachelor of Arts (HEGIS 0602)

Accrediting Council on Education in Journalism and Mass Communications (Accredited)

Buckham B119  
(716) 878-6008

This major allows students who enjoy writing the flexibility to tailor a program based on reporting and presentation of news, and other journalistic writing through print, broadcast and online media, including social media. This major allows students interested in news, sports, and entertainment the flexibility to tailor a journalism program toward the presentation of factual information in writing, video, or audio formats for print, broadcast, online and social media. It meets the needs of students preparing for a career in which research and interviewing abilities, accurate and objective reporting, legal and ethical insight, and competence in editing are central to professional practice. Compare this major with communication studies, media production, and public relations and advertising.

Buffalo State was the first SUNY school to become affiliated with the Accrediting Council on Education in Journalism and Mass Communications. and has the largest program in the system. Only a handful of undergraduate programs in New York State are accredited.

### Career Opportunities

Students prepare for careers as reporters, anchors, commentators, and news directors for radio, television, and internet-based media, and as reporters, editors, and columnists on newspapers, magazines, blogs, and other digital media.

The profile of a successful journalism graduate is a person with a strong writing proficiency and a compelling use of language, good speaking and listening skills, keen ethical insight and legal awareness, and competence in presentation of information in a particular format (written, visual, and/or digital).

### Academic Standards

Only grades of C or higher may be applied toward requirements for any communication degree; courses with lower grades must be repeated. Consistent with standards of the Accrediting Council for Education in Journalism and Mass Communications, the number of communication courses

that students may take is capped, encouraging a broad-based liberal arts education. The department encourages students to take minors or second majors, and requires evidence of an academic concentration or area of expertise outside the Communication Department.

### Admission Requirements

Incoming freshmen and transfer students can declare the major.

See the Communication department (<https://communication.buffalostate.edu/>) (<http://communication.buffalostate.edu>) for application forms and additional information, including a list of equivalent core courses at community colleges. Transfer students from two-year schools may apply only core courses toward this major for a maximum of 12 credits. Students generally require four semesters of study after completing communication core courses.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Journalism Major Requirements (42 credit hours)</b>		
<i>Communication Core (12 credit hours)</i>		
COM 100	MEDIA LITERACY	3
COM 210	INTRODUCTION TO MEDIA WRITING	3
COM 215	INTRODUCTION TO VISUAL COMMUNICATION	3
SPC 205	INTRODUCTION TO ORAL COMMUNICATION	3
<i>Major Requirements (21 credit hours )</i>		
COM 302	PRINCIPLES OF JOURNALISM	3
COM 303	WRITING FOR PRINT AND ONLINE JOURNALISM	3
COM 312	BASIC MEDIA PRODUCTION	3
COM 337	ELECTRONIC NEWS PRODUCING	3
COM 325	FEATURE WRITING	3
or COM 338	ELECTRONIC NEWS: REPORTING	
COM 400	COMMUNICATION LAW	3
COM 405	ONLINE NEWSROOM	3
<i>Senior Seminar (3 credit hours)</i>		
COM 450	COMMUNICATION AND SOCIETY	3
<i>Communication Electives (6 credit hours)</i>		
Select any two 300 or 400 level COM or SPC courses		
<b>All College Electives</b>		
36-48 credit hours		36-48
<b>Total Credit Hours</b>		<b>120</b>

## Leadership Minor

LDR



## Creativity and Change Leadership Department

Chase Hall 244  
(716) 878-6223

The leadership minor program is designed for all students interested in studying and applying leadership theory and practice. The leadership minor supports the mission of Buffalo State in preparing a diverse population of students for leadership roles and responsibilities in a challenging world. The minor serves as a nexus for connecting and integrating the insights of a variety of disciplines in understanding the complex phenomenon of leadership. Out of multiple modes of inquiry, students acquire frameworks that guide creative and critical thinking, and inform the practice of leadership in relevant contexts. A minor in leadership is a wonderful addition to any major, and enables students to be more competitive in the job market.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (12 credit hours)</b>		
CRS 201	FOUNDATIONS OF LEADERSHIP	3
CRS 302	CREATIVE APPROACHES TO PROBLEM SOLVING	3
CRS 303	CREATIVE LEADERSHIP THROUGH EFFECTIVE FACILITATION	3
CRS 435	EXPERIENCES IN LEADERSHIP	3
<b>Electives (6 credit hours)</b>		
Electives must be chosen from two different skill areas (Ability to Interact Socially, Critical Evaluation and Systematic Thinking, Empowerment, or Diversity) identified as critical to effective leadership. One of the chosen electives must be upper-level elective.		
Select two from the following:		6
<i>Ability to Interact Socially</i>		
ENG 300	WRITING FOR THE PROFESSIONS	
SPC 205	INTRODUCTION TO ORAL COMMUNICATION	
SPC 311	INTERCULTURAL COMMUNICATION	
SWK 105	INTERPERSONAL RELATIONS	
<i>Critical Evaluation and Systematic Thinking</i>		
BUS 360	PRINCIPLES OF MANAGEMENT	
PHI 103	INTRODUCTION TO LOGIC	
PHI 310	HISTORY OF ETHICS <sup>1</sup>	
<i>Empowerment</i>		
BUS 426	CREATIVE OPPORTUNITIES IN LEADERSHIP AND MANAGEMENT PRACTICES	
PSY 365	PSYCHOLOGY IN THE WORKPLACE <sup>1</sup>	
SOC 331	SOCIOLOGY OF GROUP DYNAMICS <sup>1</sup>	
SPC 205	INTRODUCTION TO ORAL COMMUNICATION	

SPC 307	GROUP COMMUNICATION
<i>Diversity</i>	
BUS 305	WORKFORCE DIVERSITY IN THE TWENTY-FIRST CENTURY
HIS/SSE 363	AMERICAN IDENTITY IN TRANSITION: DIVERSITY AND PLURALISM IN THE UNITED STATES
PSC 230	INTERNATIONAL RELATIONS
SOC 312	WOMEN IN SOCIETY
<b>Total Credit Hours</b>	<b>18</b>

<sup>1</sup> Indicates course with prerequisites.

## Legal Studies Minor

LGL

### Political Science Department

Classroom Building B218  
(716) 878-6116

The legal studies minor is designed to prepare students for successful admission to law school by exposing students to a variety of subject matters and providing a balance in students' educational experiences. Selecting courses from among those offered through the legal studies minor will help students develop oral and written communication proficiency, as well as acquire knowledge of legal history, theory, and philosophy. The optional Mock Trial course requires students to use analytical and problem-solving skills to construct factually sound and logically consistent oral arguments.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
PSC 250	INTRODUCTION TO LAW	3
PHI 103	INTRODUCTION TO LOGIC	3
	or PHI 107 INTRODUCTION TO MATHEMATICAL LOGIC	
PSC 485	MOCK TRIAL	3
or PSC 420 CONTEMPORARY CONSTITUTIONAL ISSUES or PSC 421 DISCRIMINATION AND THE CONSTITUTION		
<b>Electives (9 credit hours)</b>		
Selected from at least two different departments:		9
BUS 334	BUSINESS LAW I	
BUS 335	BUSINESS LAW II	
COM 400	COMMUNICATION LAW	
CRJ 303	CRIMINAL JUSTICE THEORY AND IDEOLOGY	
CRJ 307	COMPARATIVE CRIMINAL JUSTICE SYSTEM	
CRJ 317	CONSTITUTIONAL ISSUES IN CRIMINAL JUSTICE	
CRJ 320	CRIMINAL COURTS	
CRJ 425	RACE, ETHNICITY, AND THE ADMINISTRATION OF JUSTICE	

CRJ 430	GENDER AND THE ADMINISTRATION OF JUSTICE
ECO 360	INTRODUCTION TO THE ECONOMIC ANALYSIS OF LAW
HIS 341	AFRICAN AMERICANS AND CIVIL RIGHTS
HIS 342	ENGLISH LEGAL HISTORY
HTR 470	LEGAL ISSUES IN HOSPITALITY
PHI 301	JUSTICE: LIBERTY VS. EQUALITY
PHI 304	PHILOSOPHY OF LAW
PSC 308	INTERNATIONAL ORGANIZATIONS AND INTERNATIONAL LAW
PSC 317	U.S. CONSTITUTIONAL LAW
PSC 320	U.S. CIVIL LIBERTIES
PSC 321	CIVIL PROCEDURE
PSC 398	LEGAL RESEARCH AND WRITING
SOC 380	SOCIOLOGY OF CRIME
SOC 383	SOCIOLOGY OF PUNISHMENT AND CORRECTIONS
SPC 321	RHETORICAL CRITICISM

**Total Credit Hours** **18**

## Literary Studies Minor

ENG

### English Department

Ketchum Hall 208  
(716) 878-5416

As there is a correlation between mastery of language and success in virtually every field, the English Department devised a minor curriculum to strengthen student abilities in several areas connected with language. The minor in Literary Studies trains people to communicate lucidly, purposefully, and concisely, whether writing for a livelihood or using the skill as an adjunct to another expertise. The study of literature is also recognized for its ability to acquaint people with all aspects of human experience and to enable them to understand and make judgments.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (3 credit hours)</b>		
ENG 190	INTRODUCTION TO LITERATURE	3
<b>Area Courses in Literature (9 credit hours)</b>		
Select one from each of the following three areas: <sup>1</sup>		9
<i>British Literature</i>		
ENG 210	BRITISH LITERATURE TO 1700	
ENG 211	BRITISH LITERATURE 1700-1914	
ENG 212	BRITISH LITERATURE SINCE 1914	
ENG 252	BRITISH MODERNISM	
ENG 313	MILTON	

ENG 314	CHAUCER
ENG 315	SHAKESPEARE I
ENG 316	SHAKESPEARE II
ENG 415	SEVENTEENTH-CENTURY BRITISH LITERATURE
ENG 416	EIGHTEENTH-CENTURY ENGLISH LITERATURE
ENG 417	BRITISH NOVEL TO 1800
ENG 418	THE BRITISH NOVEL, 1800-1900
ENG 419	ROMANTIC MOVEMENT IN BRITISH LITERATURE
ENG 420	EARLY VICTORIAN LITERATURE
ENG 421	LATER VICTORIAN LITERATURE
ENG 442	THE AMERICAN NOVEL TO 1900
ENG 455	THE BRITISH NOVEL AFTER 1900

### *American Literature*

ENG 220	AMERICAN LITERATURE TO 1865
ENG 221	AMERICAN LITERATURE SINCE 1865
ENG 240	AFRICAN AMERICAN LITERATURE TO 1940
ENG 241	AFRICAN AMERICAN LITERATURE SINCE 1940
ENG 243	INTRODUCTION TO LATINX LITERATURE
ENG 353	AMERICAN INDIAN LITERATURE
ENG 354	ETHNIC AMERICAN MINORITY LITERATURES
ENG 441	THE ROMANTIC MOVEMENT IN AMERICAN LITERATURE
ENG 443	AMERICAN POETRY AFTER 1900
ENG 444	THE AMERICAN NOVEL AFTER 1900
ENG 445	AMERICAN REALISM

### *World Literature*

ENG 130	BIBLICAL AND CLASSICAL LITERATURE
ENG 131	MEDIEVAL AND RENAISSANCE LITERATURE
ENG 230	COMPARATIVE LITERATURE
ENG 330	LITERATURE OF THE BIBLE
ENG 331	FRENCH LITERATURE IN TRANSLATION
ENG 332	RUSSIAN LITERATURE IN TRANSLATION
ENG 335	MEDIEVAL AND RENAISSANCE EUROPEAN LITERATURE
ENG 337	MODERN EUROPEAN LITERATURE
ENG 345	WORLD LITERATURE AFTER 1945

ENG 346	NON-WESTERN LITERATURE AFTER 1945
ENG 350	TWENTIETH-CENTURY DRAMA I
ENG 351	TWENTIETH-CENTURY DRAMA II
<b>Elective Courses in Literature (6 credit hours)<sup>1</sup></b>	
Select two English Literature courses from the following: <sup>2</sup>	
ENG 130	BIBLICAL AND CLASSICAL LITERATURE
ENG 131	MEDIEVAL AND RENAISSANCE LITERATURE
ENG 151	INTRODUCTION TO POETRY
ENG 210	BRITISH LITERATURE TO 1700
ENG 211	BRITISH LITERATURE 1700-1914
ENG 212	BRITISH LITERATURE SINCE 1914
ENG 220	AMERICAN LITERATURE TO 1865
ENG 221	AMERICAN LITERATURE SINCE 1865
ENG 230	COMPARATIVE LITERATURE
ENG 231	WOMEN IN LITERATURE
ENG 240	AFRICAN AMERICAN LITERATURE TO 1940
ENG 241	AFRICAN AMERICAN LITERATURE SINCE 1940
ENG 243	INTRODUCTION TO LATINX LITERATURE
ENG 252	BRITISH MODERNISM
ENG 253	TWENTIETH-CENTURY LITERATURE II
ENG 255	THE SHORT STORY
ENG 260	CHILDREN'S LITERATURE
ENG 313	MILTON
ENG 314	CHAUCER
ENG 315	SHAKESPEARE I
ENG 316	SHAKESPEARE II
ENG 322	REPRESENTATIVE WRITERS
ENG 330	LITERATURE OF THE BIBLE
ENG 331	FRENCH LITERATURE IN TRANSLATION
ENG 332	RUSSIAN LITERATURE IN TRANSLATION
ENG 335	MEDIEVAL AND RENAISSANCE EUROPEAN LITERATURE
ENG 337	MODERN EUROPEAN LITERATURE
ENG 345	WORLD LITERATURE AFTER 1945
ENG 346	NON-WESTERN LITERATURE AFTER 1945
ENG 350	TWENTIETH-CENTURY DRAMA I
ENG 351	TWENTIETH-CENTURY DRAMA II

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ENG 353	AMERICAN INDIAN LITERATURE
ENG 354	ETHNIC AMERICAN MINORITY LITERATURES
ENG 385	GENDER AND SEXUALITY IN LITERATURE
ENG 450	STUDIES IN POETRY
ENG 451	STUDIES IN FICTION
ENG 452	STUDIES IN DRAMA
ENG 454	TWENTIETH-CENTURY NOVEL I
ENG 455	THE BRITISH NOVEL AFTER 1900
ENG 461	YOUNG-ADULT LITERATURE

**Total Credit Hours** 18

<sup>1</sup> At least one of the five Area and Elective Courses in Literature must be a course in literature before 1900, to be chosen by advisement.

<sup>2</sup> With adviser approval, ENG 370, ENG 380, ENG 390, or a literature course from another department may be used to fulfill one of the two Elective Courses in Literature.

## Mathematics (B.A.)

BA-AS MAT

**Mathematics Department**  
**Bachelor of Arts (HEGIS 1701)**

Science and Mathematics Complex 159  
 (716) 878-5621

Pure mathematics studies the basic concepts and structures that underlie all of mathematics. Traditionally, pure mathematics has been classified into two general fields: analysis and algebra. Analysis deals with the continuous aspects of mathematics and algebra is concerned with sets of objects and operations on these objects. Our undergraduate program is designed so that students will become familiar with each of these fields. Students may also explore other topics such as logic, number theory, and subjects within applied mathematics.

### Admission Requirements

High school mathematics through Algebra 2 / Trigonometry Regents is recommended.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
31-36 credit hours		31-36
<b>Mathematics Major Requirements (51 credit hours)</b>		
<i>Required Courses (39 credit hours)</i>		
MAT 161	CALCULUS I	4
MAT 162	CALCULUS II	4
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	1
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	1

MAT 202	INTRODUCTION TO LINEAR ALGEBRA	3
MAT 263	CALCULUS III	4
MAT 264	USING TECHNOLOGY TO EXPLORE CALCULUS III	1
MAT 270	DISCRETE MATHEMATICS	3
MAT 300	TECHNIQUES OF PROOF	3
MAT 301	FUNDAMENTALS OF ABSTRACT ALGEBRA	3
MAT 381	PROBABILITY THEORY	3
MAT 411	COMPLEX VARIABLES	3
MAT 417	INTRODUCTION TO REAL ANALYSIS I	3
MAT 491	CAPSTONE RESEARCH IN MATHEMATICS	3

*Electives Selected by Advisement (12 credit hours)*

Select four from the following:		12
MAT 302	ABSTRACT ALGEBRA II	
MAT 309	DISCRETE MATHEMATICS II	
MAT 315	DIFFERENTIAL EQUATIONS	
MAT 316	INTERMEDIATE DIFFERENTIAL EQUATIONS	
MAT 351	ELEMENTARY THEORY OF NUMBERS	
MAT 370	APPLIED NETWORKS	
MAT 382	MATHEMATICAL STATISTICS	
MAT 383	APPLIED STATISTICS I	
MAT 401	INTRODUCTION TO COMPUTABILITY	
MAT 404	APPLICATIONS OF LINEAR ALGEBRA	
MAT 418	INTRODUCTION TO REAL ANALYSIS II	
MAT 430	SET THEORY	
MAT 431	MATHEMATICAL LOGIC	
MAT 461	NUMERICAL ANALYSIS	
MAT 471	INTRODUCTION TO TOPOLOGY	
MAT 481	STOCHASTIC PROCESSES	
MAT 484	APPLIED STATISTICS II	
MAT 490	SEMINAR	
MAT 495	SPECIAL PROJECT	
MAT 499	INDEPENDENT STUDY	

**All College Electives**

33-38	33-38
<b>Total Credit Hours</b>	<b>120</b>

## Mathematics Education (7–12, 5 – 6 Extension; PTCP)

Postbaccalaureate Teacher Certification Program  
 Program Code: UG-PBC-AS  
 Major Code: MTX  
 HEGIS 1701.01

**Mathematics Department**

Council for the Accreditation of Educator Preparation (CAEP)  
 Accredited

Science and Mathematics Complex 159 (716) 878-5621  
[mathematics.buffalostate.edu/](http://mathematics.buffalostate.edu/) (<http://mathematics.buffalostate.edu/>)

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs (<http://ecatalog.buffalostate.edu/graduate/admission-graduate-program/admission-all-education-programs/>)" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

This program is designed for students who are currently enrolled in the mathematics education 7-12 postbaccalaureate teacher certification program or who have been approved for candidacy in the mathematics education master's program. It allows them to extend certification in mathematics to grades 5-12.

In addition to academic requirements, students who are enrolled in teacher education programs leading to Initial Certification or Initial/Professional certification are required to complete all seminars specifically required by New York State for program completion and graduation, including School Violence Prevention and Intervention (SAVE); Identification and Reporting of Child Abuse and Maltreatment; Alcohol and Other Drug Avoidance; Fire and Arson Safety; HIV and the Classroom; and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training). These seminar requirements are subject to change.

After successfully completing the teacher certification program and passing required New York State teacher certification exams, students are eligible to apply for New York State certification through the Teacher Certification Office, Chase Hall 222. No degree or certificate is awarded by Buffalo State.

**Financial Assistance**

For financial aid purposes, students are considered fifth-year undergraduates, eligible for undergraduate loans.

**Admission Requirements**

1. A bachelor's degree in mathematics or an applied mathematics field from an accredited college or university with 36 credit hours of mathematics courses and a minimum GPA of 3.0 (4.0 scale) in mathematics courses.
2. Two years of high school or one year of college-level foreign language.

In addition, all applicants should review the Admission to a Graduate Program (<https://ecatalog.buffalostate.edu/graduate/admission-graduate-program/>) section in this catalog.

**Program Requirements**

This program requires 6 additional credit hours of coursework in middle school education. Courses are selected under advisement. Study includes early adolescent development and the application of diverse instructional strategies in middle childhood education, including interdisciplinary teaching and teaming of students and faculty to maximize student learning. Please contact the Mathematics Department for more information.

# Mathematics Education (7–12, 5–6 Extension, B.S.)

BS-AS MTX

**Mathematics Department**  
**Bachelor of Science (HEGIS 1701.01)**

Council for the Accreditation of Educator Preparation (CAEP)  
Accredited  
Science and Mathematics Complex 159

(716) 878-5621

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The B.S. program in mathematics with adolescent certification (5–6 extension) is directed to a career goal of teaching. This program includes the course requirements leading to New York State initial certification to teach mathematics in grades 5–12.

## Admission Requirements

SUNY has a standard admissions requirement of a 3.0 GPA for entry into an educator preparation program at the undergraduate or graduate level or a rank in the top 30th percentile of the high school class for entry into an undergraduate educator preparation program as a first-year student.

For first-year students, four years of college preparatory mathematics is recommended; top 30th percentile or an 85% high school average; submission of ACT or SAT score.

Transfer students with a 3.0 GPA from either their last college or the combined average of all previous colleges, whichever is higher, will be admitted directly into Mathematics Education (BS-NS MTS).

Students who do not meet admissions requirements will be admitted into the Mathematics (BA-NS MAT) major.

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
27 credit hours		27
<b>Mathematics Major Requirements (48 credit hours)</b>		
<i>Required Courses (39 credit hours)</i>		
MAT 161	CALCULUS I	4
MAT 162	CALCULUS II	4
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	1
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	1
MAT 202	INTRODUCTION TO LINEAR ALGEBRA	3
MAT 263	CALCULUS III	4

MAT 264	USING TECHNOLOGY TO EXPLORE CALCULUS III	1
MAT 270	DISCRETE MATHEMATICS	3
MAT 300	TECHNIQUES OF PROOF	3
MAT 301	FUNDAMENTALS OF ABSTRACT ALGEBRA	3
MAT 322	MODERN GEOMETRY	3
MAT 325	PROBABILITY AND STATISTICS	3
MAT 351	ELEMENTARY THEORY OF NUMBERS	3
MAT 417	INTRODUCTION TO REAL ANALYSIS I	3

### *Electives (9 credit hours)*

Select three courses from the following: 9		
MAT 302	ABSTRACT ALGEBRA II	
MAT 309	DISCRETE MATHEMATICS II	
MAT 315	DIFFERENTIAL EQUATIONS	
MAT 316	INTERMEDIATE DIFFERENTIAL EQUATIONS	
MAT 319	MATHEMATICAL BIOLOGY	
MAT 351	ELEMENTARY THEORY OF NUMBERS	
MAT 366	COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS II	
MAT 370	APPLIED NETWORKS	
MAT 382	MATHEMATICAL STATISTICS	
MAT 383	APPLIED STATISTICS I	
MAT 401	INTRODUCTION TO COMPUTABILITY	
MAT 404	APPLICATIONS OF LINEAR ALGEBRA	
MAT 411	COMPLEX VARIABLES	
MAT 418	INTRODUCTION TO REAL ANALYSIS II	
MAT 431	MATHEMATICAL LOGIC	
MAT 461	NUMERICAL ANALYSIS	
MAT 471	INTRODUCTION TO TOPOLOGY	
MAT 490	SEMINAR	
MAT 495	SPECIAL PROJECT	
MAT 499	INDEPENDENT STUDY	

### **Professional Education Requirements (36 credit hours)**

SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
SPF 353	HUMAN DEVELOPMENT DURING EARLY ADOLESCENCE AND ADOLESCENCE	3
SPF 403	HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
EDU 417	ADOLESCENT LITERACY	3

EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS <sup>1</sup>	3
MED 200	FOUNDATIONS OF TEACHING MATHEMATICS 7-12 AND FIELD EXPERIENCE	3
MED 300	FIELD EXPERIENCE: METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS	3
MED 307	USES OF TECHNOLOGY IN THE TEACHING OF MATHEMATICS <sup>1</sup>	3
MED 308	METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS	3
MED 309	TEACHING MATHEMATICS IN THE MIDDLE SCHOOL	3
MED 383	LEARNING AND TEACHING PROBLEM SOLVING	3
<b>Student Teaching Requirements (12 credit hours)</b>		
MED 406	STUDENT TEACHING OF MATHEMATICS IN THE LOWER MIDDLE GRADES 5-6 <sup>1</sup>	6
MED 408	STUDENT TEACHING OF MATHEMATICS IN HIGH SCHOOL <sup>1</sup>	6
<b>Total Credit Hours 123</b>		

<sup>1</sup> Fulfills Intellectual Foundations 2014 requirement.

## Mathematics Education (7–12, B.S.)

BS-AS MTS

**Mathematics Department**  
**Bachelor of Science (HEGIS 1701.01)**

Council for the Accreditation of Educator Preparation (CAEP)  
Accredited  
Science and Mathematics Complex 159

(716) 878-5621

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The B.S. in mathematics with adolescent certification is directed to a career goal of teaching. This program includes the course requirements leading to New York State certification to teach mathematics in grades 7–12.

### Admission Requirements

SUNY has a standard admissions requirement of a 3.0 GPA for entry into an educator preparation program at the undergraduate or graduate level or a rank in the top 30th percentile of the high school class for entry into an undergraduate educator preparation program as a first-year student.

For first-year students, four years of college preparatory mathematics is recommended; top 30th percentile or an 85% high school average; submission of ACT or SAT score.

Transfer students with a 3.0 GPA from either their last college or the combined average of all previous colleges, whichever is higher, will be admitted directly into Mathematics Education (BS-AS MTS).

Students who do not meet admissions requirements will be admitted into the Mathematics (BA-AS MAT) major.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
30 credit hours		30
<b>Mathematics Major Requirements (48 credit hours)</b>		
<i>Required Courses (39 credit hours)</i>		
MAT 161	CALCULUS I	4
MAT 162	CALCULUS II	4
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	1
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	1
MAT 202	INTRODUCTION TO LINEAR ALGEBRA	3
MAT 263	CALCULUS III	4
MAT 264	USING TECHNOLOGY TO EXPLORE CALCULUS III	1
MAT 270	DISCRETE MATHEMATICS	3
MAT 300	TECHNIQUES OF PROOF	3
MAT 301	FUNDAMENTALS OF ABSTRACT ALGEBRA	3
MAT 322	MODERN GEOMETRY	3
MAT 325	PROBABILITY AND STATISTICS	3
MAT 351	ELEMENTARY THEORY OF NUMBERS	3
MAT 417	INTRODUCTION TO REAL ANALYSIS I	3
<i>Electives (9 credit hours)</i>		
Select three from the following:		9
MAT 302	ABSTRACT ALGEBRA II	
MAT 309	DISCRETE MATHEMATICS II	
MAT 315	DIFFERENTIAL EQUATIONS	
MAT 316	INTERMEDIATE DIFFERENTIAL EQUATIONS	
MAT 319	MATHEMATICAL BIOLOGY	
MAT 366	COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS II	
MAT 370	APPLIED NETWORKS	
MAT 382	MATHEMATICAL STATISTICS	
MAT 383	APPLIED STATISTICS I	
MAT 401	INTRODUCTION TO COMPUTABILITY	
MAT 404	APPLICATIONS OF LINEAR ALGEBRA	
MAT 411	COMPLEX VARIABLES	

MAT 418	INTRODUCTION TO REAL ANALYSIS II	
MAT 431	MATHEMATICAL LOGIC	
MAT 461	NUMERICAL ANALYSIS	
MAT 471	INTRODUCTION TO TOPOLOGY	
MAT 490	SEMINAR	
MAT 495	SPECIAL PROJECT	
MAT 499	INDEPENDENT STUDY	

#### Professional Education Requirements (30 credit hours)

SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
SPF 403	HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
EDU 417	ADOLESCENT LITERACY	3
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS <sup>1</sup>	3
MED 200	FOUNDATIONS OF TEACHING MATHEMATICS 7-12 AND FIELD EXPERIENCE	3
MED 300	FIELD EXPERIENCE: METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS	3
MED 307	USES OF TECHNOLOGY IN THE TEACHING OF MATHEMATICS <sup>1</sup>	3
MED 308	METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS	3
MED 383	LEARNING AND TEACHING PROBLEM SOLVING	3

#### Student Teaching Requirements (12 credit hours)

MED 407	STUDENT TEACHING OF MATHEMATICS IN JUNIOR HIGH/MIDDLE SCHOOL <sup>1</sup>	6
MED 408	STUDENT TEACHING OF MATHEMATICS IN HIGH SCHOOL <sup>1</sup>	6

#### All College Electives

0-3 credit hours 0-3

#### Total Credit Hours 120

<sup>1</sup> Fulfill Intellectual Foundations 2014 requirement.

## Mathematics Education (7–12, PTCP)

### Postbaccalaureate Teacher Certification Program

Program Code: UG-PBC-AS

Major Code: MTS

HEGIS 1701.01

### Mathematics Department

Council for the Accreditation of Educator Preparation (CAEP) Accredited

Science and Mathematics Complex 159, (716) 878-5621  
[mathematics.buffalostate.edu/](http://mathematics.buffalostate.edu/) (<http://mathematics.buffalostate.edu/>)

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs (<http://ecatalog.buffalostate.edu/graduate/admission-graduate-program/admission-all-education-programs/>)" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The mathematics education (7-12) postbaccalaureate teacher certification program leads to eligibility for a New York State initial certificate to teach mathematics in grades 7-12. This program is designed for students who have earned a baccalaureate degree in mathematics from an accredited college or university and intend to complete coursework required for New York State certification to teach mathematics.

In addition to academic requirements, students who are enrolled in teacher education programs leading to Initial Certification or Initial/Professional certification are required to complete all seminars specifically required by New York State for program completion and graduation, including School Violence Prevention and Intervention (SAVE); Identification and Reporting of Child Abuse and Maltreatment; Alcohol and Other Drug Avoidance; Fire and Arson Safety; HIV and the Classroom; and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training). These seminar requirements are subject to change.

After successfully completing the teacher certification program and passing required New York State teacher certification exams, students are eligible to apply for New York State certification through the Teacher Certification Office, Chase Hall 222. No degree or certificate is awarded by Buffalo State.

### Financial Assistance

For financial aid purposes, students are considered fifth-year undergraduates, eligible for undergraduate loans.

### Admission Requirements

1. A bachelor's degree in mathematics or an applied mathematics field from an accredited college or university with 36 credit hours of mathematics courses and a minimum GPA of 3.0 (4.0 scale) in mathematics courses.
2. Two years of high school or one year of college-level foreign language.

In addition, all applicants should review the Admission to a Graduate Program (<https://ecatalog.buffalostate.edu/graduate/admission-graduate-program/>) section in this catalog.

### Program Requirements

Requirements may be fulfilled entirely with graduate courses, entirely with undergraduate courses or with a combination of undergraduate and graduate courses. Graduate-level courses

are numbered 500 and higher; undergraduate-level courses are numbered 100–499.

Code	Title	Credit Hours
<b>Mathematics Education Courses (18-25 credit hours)</b>		
MED 200	FOUNDATIONS OF TEACHING MATHEMATICS 7-12 AND FIELD EXPERIENCE	3
or MED 500	PRACTICUM I: GRADUATE FIELD EXPERIENCE IN SECONDARY MATHEMATICS EDUCATION	
MED 307	USES OF TECHNOLOGY IN THE TEACHING OF MATHEMATICS	3
or MED 607	TECHNOLOGY IN MATHEMATICS EDUCATION	
MED 383	LEARNING AND TEACHING PROBLEM SOLVING	3
Select one from the following:		3-4
MED 308	METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS	3
MED 601	SEMINAR IN THE TEACHING OF MATHEMATICS	
Select one from the following:		6-12
MED 407 & MED 408	STUDENT TEACHING OF MATHEMATICS IN JUNIOR HIGH/MIDDLE SCHOOL and STUDENT TEACHING OF MATHEMATICS IN HIGH SCHOOL	
MED 501 & MED 502	PRACTICUM II: PRACTICE TEACHING MATHEMATICS IN THE MIDDLE SCHOOL and PRACTICUM III: PRACTICE TEACHING MATHEMATICS IN THE HIGH SCHOOL	
<b>Professional Education Courses (13-15 credit hours)</b>		
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
SPF 403	HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION	3
or SPF 525	PHILOSOPHY OF EDUCATION	
EDU 417	ADOLESCENT LITERACY	3
or EDU 609	RESEARCH AND PRACTICE IN ADOLESCENT LITERACY	
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
or EDU 513	THEORY, RESEARCH AND PRACTICE IN LITERACY INSTRUCTION	
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	1-3

or MED 524 MATHEMATICS INSTRUCTION AT THE SECONDARY LEVEL

**Total Credit Hours** **34-43**

## Mathematics Minor

MAT

### Mathematics Department

Science and Mathematics Complex 159  
(716) 878-5621

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (11-14 credit hours)</b>		
Select one from the following:		4-5
MAT 126	APPLIED CALCULUS I	
MAT 161	CALCULUS I <sup>1</sup>	
Select one from the following:		4-5
MAT 127	APPLIED CALCULUS II	
MAT 162	CALCULUS II <sup>1</sup>	
Select one from the following:		3-4
MAT 202	INTRODUCTION TO LINEAR ALGEBRA	
MAT 270	DISCRETE MATHEMATICS	
MAT 263	CALCULUS III <sup>1</sup>	
<b>Electives (9 credit hours)</b>		
Select from the following:		9
MAT 300	TECHNIQUES OF PROOF (prerequisite: MAT 162 and MAT 270)	
MAT 301	FUNDAMENTALS OF ABSTRACT ALGEBRA (prerequisites: MAT 202 and MAT 300)	
MAT 302	ABSTRACT ALGEBRA II (prerequisite: MAT 301)	
MAT 309	DISCRETE MATHEMATICS II (prerequisite: MAT 270)	
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS (3 years of HS Regents mathematics)	
MAT 315	DIFFERENTIAL EQUATIONS (prerequisite: MAT 263 or permission of instructor)	
MAT 316	INTERMEDIATE DIFFERENTIAL EQUATIONS (prerequisite: MAT 315)	
MAT 318	MATHEMATICAL MODELING	
MAT 319	MATHEMATICAL BIOLOGY	
MAT 322	MODERN GEOMETRY (prerequisite: MAT 270 or MAT 300)	
MAT 325	PROBABILITY AND STATISTICS (prerequisites: MAT 127 or MAT 162 and MAT 270 or permission of instructor)	



MAT 351	ELEMENTARY THEORY OF NUMBERS (4 years of HS Regents mathematics)
MAT 370	APPLIED NETWORKS (prerequisites: MAT 202 and MAT 270)
MAT 381	PROBABILITY THEORY (prerequisites: MAT 270 and MAT 127 or MAT 162. Credit will not be awarded for both MAT 325 and MAT 381)
MAT 382	MATHEMATICAL STATISTICS (prerequisites: MAT 263 and MAT 381)
MAT 383	APPLIED STATISTICS I (prerequisites: MAT 382 or MAT 325 or MAT 311 and MAT 381)
MAT 390	INTRODUCTION TO OPERATIONS RESEARCH (prerequisite: MAT 202 and MAT 270)
MAT 401	INTRODUCTION TO COMPUTABILITY (prerequisites: MAT 270 and either MAT 301 or MAT 351)
MAT 404	APPLICATIONS OF LINEAR ALGEBRA (prerequisites: MAT 263 and MAT 264 and MAT 202)
MAT 411	COMPLEX VARIABLES (prerequisite: MAT 263)
MAT 417	INTRODUCTION TO REAL ANALYSIS I (prerequisite: MAT 263)
MAT 418	INTRODUCTION TO REAL ANALYSIS II (prerequisite: MAT 417)
MAT 430	SET THEORY (prerequisites: MAT 300 with at least a C or PHI 307 with at least a C)
MAT 431	MATHEMATICAL LOGIC (prerequisite: MAT 300 with at least a C or PHI 307 with at least a C)
MAT 461	NUMERICAL ANALYSIS (prerequisites: MAT 263 and MAT 264 and MAT 202)
MAT 471	INTRODUCTION TO TOPOLOGY (prerequisite: MAT 300 and MAT 301 or MAT 417)
MAT 490	SEMINAR (Permission of Instructor)
MAT 491	CAPSTONE RESEARCH IN MATHEMATICS (prerequisite: MAT 301 or MAT 417 and senior status or permission of instructor)
MAT 495	SPECIAL PROJECT (Permission of Instructor)
MAT 499	INDEPENDENT STUDY (Permission of Instructor)

**Total Credit Hours** **20-23**

<sup>1</sup> MAT 161, MAT 162, and MAT 263 have one-hour co-requisites, MAT 163, MAT 164, MAT 264, respectively.

## Mathematics—Applied (B.S.)

BS-AS AMT

**Mathematics Department**  
**Bachelor of Science (HEGIS 1703)**

Science and Mathematics Complex 159  
(716) 878-5621

The applied mathematics B.S. program is directed toward a career goal for computer- and mathematics-related government, industrial, or business employment. It may also provide a basis for entry into graduate school in mathematics, applied mathematics, computer science, or other related disciplines.

### Admission Requirements

Four years of college preparatory mathematics is recommended.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
36 credit hours		36

### Mathematics Major Requirements (54 credit hours)

#### Required Courses (36 credit hours)

MAT 161	CALCULUS I	4
MAT 162	CALCULUS II	4
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	1
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	1
MAT 202	INTRODUCTION TO LINEAR ALGEBRA	3
MAT 241	COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS I	3
MAT 263	CALCULUS III	4
MAT 264	USING TECHNOLOGY TO EXPLORE CALCULUS III	1
MAT 270	DISCRETE MATHEMATICS	3
MAT 315	DIFFERENTIAL EQUATIONS	3
MAT 381	PROBABILITY THEORY	3
MAT 382	MATHEMATICAL STATISTICS	3
MAT 495	SPECIAL PROJECT	3

#### Concentration Selected by Advisement (18 credit hours)

### All College Electives

33 credit hours	33
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### Total Credit Hours 120

Concentration in Statistical Modeling

Code	Title	Credit Hours
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### Required Courses (9 credit hours)

MAT 383	APPLIED STATISTICS I	3
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MAT 481	STOCHASTIC PROCESSES	3
MAT 484	APPLIED STATISTICS II	3
Electives (9 credit hours)		9
MAT 300	TECHNIQUES OF PROOF	
MAT 316	INTERMEDIATE DIFFERENTIAL EQUATIONS	
MAT 318	MATHEMATICAL MODELING	
MAT 319	MATHEMATICAL BIOLOGY	
MAT 366	COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS II	
MAT 370	APPLIED NETWORKS	
MAT 390	INTRODUCTION TO OPERATIONS RESEARCH	
MAT 404	APPLICATIONS OF LINEAR ALGEBRA	
MAT 411	COMPLEX VARIABLES	
MAT 417	INTRODUCTION TO REAL ANALYSIS I	
MAT 461	NUMERICAL ANALYSIS	
MAT 486	MODELS AND METHODS OF ACTUARIAL MATHEMATICS	
MAT 490	SEMINAR	
MAT 499	INDEPENDENT STUDY	
<b>Total Credit Hours</b>		<b>18</b>

#### Concentration in Analytical and Computational Modeling

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
MAT 316	INTERMEDIATE DIFFERENTIAL EQUATIONS	3
MAT 390	INTRODUCTION TO OPERATIONS RESEARCH	3
MAT 461	NUMERICAL ANALYSIS	3
Electives (9 credit hours)		9
MAT 300	TECHNIQUES OF PROOF	
MAT 318	MATHEMATICAL MODELING	
MAT 319	MATHEMATICAL BIOLOGY	
MAT 366	COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS II	
MAT 370	APPLIED NETWORKS	
MAT 383	APPLIED STATISTICS I	
MAT 404	APPLICATIONS OF LINEAR ALGEBRA	
MAT 411	COMPLEX VARIABLES	
MAT 417	INTRODUCTION TO REAL ANALYSIS I	
MAT 481	STOCHASTIC PROCESSES	
MAT 484	APPLIED STATISTICS II	
MAT 486	MODELS AND METHODS OF ACTUARIAL MATHEMATICS	
MAT 490	SEMINAR	
MAT 499	INDEPENDENT STUDY	
<b>Total Credit Hours</b>		<b>18</b>

#### Concentration in Biological and Actuarial Modeling

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
MAT 318	MATHEMATICAL MODELING	3
MAT 319	MATHEMATICAL BIOLOGY	3
MAT 486	MODELS AND METHODS OF ACTUARIAL MATHEMATICS	3
Electives (9 credit hours)		9
MAT 300	TECHNIQUES OF PROOF	
MAT 316	INTERMEDIATE DIFFERENTIAL EQUATIONS	
MAT 366	COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS II	
MAT 370	APPLIED NETWORKS	
MAT 383	APPLIED STATISTICS I	
MAT 390	INTRODUCTION TO OPERATIONS RESEARCH	
MAT 404	APPLICATIONS OF LINEAR ALGEBRA	
MAT 411	COMPLEX VARIABLES	
MAT 417	INTRODUCTION TO REAL ANALYSIS I	
MAT 461	NUMERICAL ANALYSIS	
MAT 481	STOCHASTIC PROCESSES	
MAT 484	APPLIED STATISTICS II	
MAT 490	SEMINAR	1-3
MAT 499	INDEPENDENT STUDY	
<b>Total Credit Hours</b>		<b>19-21</b>

## Mechanical Engineering Technology (B.S.)

*Evening study available.*

BS-SP MET

### Engineering Technology Department Bachelor of Science (HEGIS 0925)

The Mechanical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, (<http://www.abet.org>)

Technology Building 126

(716) 878-6017

[engineeringtechnology.buffalostate.edu](http://engineeringtechnology.buffalostate.edu) (<https://engineeringtechnology.buffalostate.edu/>)

The bachelor's degree in the mechanical engineering technology program is designed to give the student a broad education in the areas of mechanical design, mechanics, stress analysis, thermosciences, and manufacturing. Graduates are in high demand and are employed by manufacturing companies, consulting firms, government agencies, testing laboratories, and other enterprises that require people with strong mechanically oriented backgrounds. Graduates work as mechanical designers developing new products, manufacturing supervisors solving problems of producing these products for performance or quality, as plant engineers improving or maintaining factories, and in technical sales

selling these products. The duties of technologists may involve overseeing installation, operation, maintenance, and repair to ensure that machines and equipment are installed and functioning according to specifications; specifying system components; supervising drafters in developing the design of products; testing and evaluating products; and or/developing cost estimates.

<sup>1</sup> Technology Accreditation Commission/Accreditation Board for Engineering and Technology Inc. (TAC/ABET)  
111 Market Place, Suite 1050  
Baltimore, MD 21202  
(410) 347-7700

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Mechanical Engineering Technology Major Requirements (51 credit hours)</b>		
ENT 213	COMPUTER METHODS FOR TECHNOLOGISTS	3
ENT 301	MECHANICS I	3
ENT 302	MECHANICS II	3
ENT 303	KINEMATICS	3
ENT 311	THERMODYNAMICS	3
ENT 312	FLUID MECHANICS	3
ENT 314	SOLID MODELING	3
ENT 331	ELECTRICAL CIRCUITS AND DEVICES	3
ENT 335	INDUSTRIAL ELECTRONICS	3
ENT 371	ELECTRIC MACHINES	3
ENT 401	STRESS ANALYSIS	3
ENT 402	SHOCK AND VIBRATION ANALYSIS	3
ENT 411	HEAT TRANSFER	3
ENT 420	PROFESSIONAL EXPERIENCE IN MECHANICAL ENGINEERING TECHNOLOGY	1
ENT 421	MACHINE DESIGN I	3
ENT 422	MACHINE DESIGN II	3
TEC 101	TECHNICAL DRAWING	3
TEC 201	MATERIALS PROCESSING	3
TEC 311	MATERIALS SCIENCE AND TESTING	3

### Electives (0-10 credit hours)

The following accreditation requirements can be included in the Intellectual Foundations requirements and electives: 0-10

- CHE 101 GENERAL CHEMISTRY I  
or CHE 111 FUNDAMENTALS OF CHEMISTRY I
- CHE 102 GENERAL CHEMISTRY II  
or CHE 111 FUNDAMENTALS OF CHEMISTRY I
- CIS 151 COMPUTER-BASED INFORMATION PROCESSING I

Select one of the following:

- MAT 202 INTRODUCTION TO LINEAR ALGEBRA

MAT 241	COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS I
MAT 270	DISCRETE MATHEMATICS
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS (or other math course by advisement)
MAT 126	APPLIED CALCULUS I or MAT 111 CALCULUS I
MAT 127	APPLIED CALCULUS II or MAT 111 CALCULUS II
MAT 315	DIFFERENTIAL EQUATIONS or ENT 301 MATHEMATICS APPLICATIONS IN ENGINEERING TECHNOLOGY
PHY 107	GENERAL PHYSICS I or PHY 111 UNIVERSITY PHYSICS I
PHY 108	GENERAL PHYSICS II or PHY 111 UNIVERSITY PHYSICS II
SPC 205	INTRODUCTION TO ORAL COMMUNICATION

### All College Electives

30-36 credit hours 30-36

**Total Credit Hours 120**

## Media Production (B.A.)

BA-AS MDP

### Communication Department Bachelor of Arts (HEGIS 0603)

Accrediting Council on Education in Journalism and Mass Communications (Accredited)

Buckham Hall B119  
(716) 878-6008

This major (formerly called broadcasting) allows students flexibility to tailor a program based on production of audio and/or visual messages using various electronic media. It meets the needs of students preparing for a career integrating many elements: research, planning, writing and other aspects of preproduction; studio and field experience in technical production; post-production activities, such as editing; and media management areas. Compare this major with communication studies, journalism, and public relations and advertising.

This is the only program in broadcasting and production at any SUNY school that is affiliated with the Accrediting Council on Education in Journalism and Mass Communications. Only a handful of other undergraduate programs in New York State are accredited.

### Career Opportunities

Students in media production prepare for careers in radio or audio production, television or video production, Web design, music production, media sales and management, related technical areas, and other fields that require a liberal arts education enhanced with production skills. Specific job titles associated with this major include writer, producer, director, videographer, editor, Web designer, and production manager.

The profile of a successful media production graduate is a person with strong skills in using computers, cameras, and other technical equipment, writing and speaking proficiency, keen ethical insight, analytical and creative competence, and management abilities.

### Academic Standards

Only grades of C or higher may be applied toward requirements for any communication degree; courses with lower grades must be repeated. Consistent with standards of the Accrediting Council for Education in Journalism and Mass Communications, the number of communication courses that students may take is capped, encouraging a broad-based liberal arts education. The department encourages students to take minors or second majors, and requires evidence of an academic concentration or area of expertise outside the Communication Department.

### Admission Requirements

See [communication.buffalostate.edu/](http://communication.buffalostate.edu/) (<http://communication.buffalostate.edu/>) for application forms and additional information, including a list of equivalent core courses at community colleges. Transfer students from two-year schools may apply only core courses toward this major for a maximum of 12 credits. Students generally require four semesters of study after completing communication core courses.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Media Production Major Requirements (42 credit hours)</b>		
<b>Communication Core (12 credit hours)</b>		
COM 100	MEDIA LITERACY	3
COM 210	INTRODUCTION TO MEDIA WRITING	3
COM 212	INTRODUCTION TO DIGITAL STORYTELLING	3
or COM 215 INTRODUCTION TO VISUAL COMMUNICATION		
SPC 205	INTRODUCTION TO ORAL COMMUNICATION	3
<b>Major Requirements (30 credit hours)</b>		
<i>Select all five (15 credit hours)</i>		
COM 304	WRITING FOR BROADCAST (TV, RADIO, FILM)	3
COM 312	BASIC MEDIA PRODUCTION	3
COM 328	INTERMEDIATE POST PRODUCTION	3
COM 329	INTERMEDIATE VIDEO PRODUCTION	3
COM 450	COMMUNICATION AND SOCIETY	3
<i>Select one Critical Thinking course (3 credit hours):</i>		
COM 317	MEDIA MANAGEMENT	3
SPC 326	FILM ANALYSIS AND EVALUATION	
SPC 422	MEDIA CRITICISM	

SPC 426	DOCUMENTARY FILM ANALYSIS	
<i>Select two Advanced Production Course (6 credit hours)</i>		6
COM 428	ADVANCED AUDIO PRODUCTION	
COM 429	ADVANCED MULTI-CAMERA STUDIO PRODUCTION	
COM 431	ADVANCED FIELD PRODUCTION	
COM 432	ADVANCED POST-PRODUCTION	
COM 433	ADVANCED TV DOCUMENTARY PRODUCTION	
COM 434	ADVANCED VIDEO PRODUCTION PRACTICUM	
COM 435	VISUAL EFFECTS	
<i>Communication Electives (6 credit hours)</i>		6
<i>Select any two 300 or 400 level COM or SPC courses</i>		6
<b>All College Electives</b>		
39-45 credit hours		39-45
<b>Total Credit Hours</b>		<b>120</b>

## Metals/Jewelry (B.F.A.)

BFA-AS MJD

### Art and Design Department Bachelor of Fine Arts (HEGIS 1009)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD) Accredited

The B.F.A. degree in metals/jewelry design is a studio-intensive program of study focused on developing the aesthetic, conceptual, and technical skills necessary to foster creativity as students work toward developing their individual identities as visual designers/artists. This degree offers students a specialized studio-oriented education in preparation for advanced or graduate studies, or for beginning careers as professional designers or artists.

Students begin with foundation courses in two-dimensional design, three-dimensional design, drawing, art history, and design history along with courses in ceramics, fibers, and wood. Major courses in metals/jewelry design and sculpture complete the requirements. Internship opportunities are available. The remaining credit hours are completed in required Intellectual Foundations courses and in other chosen studio courses.

### Admission Requirements

There is no entrance portfolio review for admission. All students will enter the metals/jewelry design major as a bachelor of fine arts (BFA-AH MJD) and complete a selection of foundation and major course(s) before a commit-to-major portfolio review for continuation in the bachelor of fine arts program (BFA-AH MJD). Commit-to-major portfolio reviews are conducted by faculty and generally take place

during the sophomore year. After passing the portfolio review, to continue in the B.F.A. degree program a 3.0 GPA must be maintained in the major. Transfer students are urged to submit their portfolios the semester before transfer in order to facilitate placement in departmental courses and/or for possible commit-to-major portfolio review. As a condition for graduation, each B.F.A student will be required to mount an individual exhibition of his/her work and present a professional portfolio.

The Art and Design Department reserves the right to retain students' work for official purposes, such as exhibitions, catalogs, teaching aids, or permanent collections and to use images of the students and their work for publicity and recruitment. Students are expected to assume the costs of materials used in courses. Some studio courses may have an additional charge for materials used in class. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class

The Art and Design Department may be in the process of curricular revision. Please refer to the college Web site or the department for updated information.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39

### Metal/Jewelry Design Major Requirements (79 credit hours)

<i>Foundation Courses (37 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
DES/AAD 103	INTRODUCTION TO THREE-DIMENSIONAL DESIGN	3
DES 108/ AAD 105	DIGITAL DESIGN AND FABRICATION	3
DES 220	CERAMICS I	3
DES 242	FIBERS I	3
DES 250	WOOD DESIGN I	3
DES 312	HISTORY OF CRAFT: INDUSTRIAL REVOLUTION TO THE PRESENT	3
DES 414	SENIOR SEMINAR/EXHIBITION	4
FAR 101	DRAWING I	3
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
<i>Major Courses (30 credit hours)</i>		
DES 230	INTRODUCTION TO JEWELRY MAKING	3
DES 330	APPLIED JEWELRY TECHNIQUES	3
DES 331	JEWELRY: JUNIOR STUDIO	3-12
DES 336	METALSMITHING	3
DES 331	JEWELRY: JUNIOR STUDIO	3-12

or DES 337	METALSMITHING: JUNIOR STUDIO	
DES 338	COMPUTER THREE-DIMENSIONAL MODELING AND RENDERING	3
DES 431	SENIOR JEWELRY STUDIO	3
<i>Studio Electives Selected by Advisement (12 credit hours)</i>		
DES 320	CERAMICS II	3
DES 342	FIBERS II	3
DES 350	WOOD DESIGN II	3
FAR 240	INTRODUCTORY SCULPTURE	3
FAR 341	INTERMEDIATE SCULPTURE I	3
Select one from the following:		3
DES 321	CERAMICS: JUNIOR STUDIO	
DES 344	FIBERS: JUNIOR STUDIO	
DES 351	WOOD DESIGN: JUNIOR STUDIO	

### All College Electives

2-8 credit hours	2-8
<b>Total Credit Hours</b>	<b>120-145</b>

## Meteorology and Climatology Minor

MTC

### Geography and Planning

Classroom Building A213  
(716) 878-6216

The meteorology and climatology minor may add a useful dimension to the student's major (e.g., a communications major positioning themselves to work as a broadcast meteorologist, or a chemistry major interested in the implications of weather on air quality, or a psychology/health and wellness major acquiring the needed background to understand the role of weather on our mental and physical health), positioning a student for a possible alternative career option, or taken simply because the student has an interest in weather and climate.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (6 credit hours)</b>		
GEG 101	WORLD NATURAL ENVIRONMENTS	3
GEG/GES 241	METEOROLOGY	3
Select four from the following:		12
GEG 307	CONSERVATION AND ENVIRONMENTAL MANAGEMENT	
GEG 383	EXTREME WEATHER	
GEG 385	PAST CLIMATES AND ENVIRONMENTS	
GEG 386	WEATHER AND SOCIETY	
GEG 478	GLOBAL CHANGE	
GEG 495	SPECIAL PROJECT	

## Museum Studies Minor

MST

### History and Social Studies Education

Classroom Building C205  
(716) 878-5412

The minor in museum studies is designed to provide students with the knowledge and expertise to work in the museum setting. It supplements majors in the Schools of Natural and Social Sciences, Arts and Humanities, Education, and the Professions. An important feature is its flexibility, allowing students to customize the program according to individual interests. The minor will complement the studies of history, anthropology, art history, geography, music, urban planning, art education, social studies education, childhood education, creative studies, and others. It offers students the opportunity to develop interests in material culture exhibition, preservation, and presentation, administration, curation, and museums as tools for learning. The minor reflects the mission of SUNY Buffalo State for community engagement and allows students to explore career options by working for cultural institutions/not-for-profit agencies through internships and to prepare for advanced graduate study.

### Program Requirements

Code	Title	Credit Hours
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#### Required Courses (6 credit hours)

HIS/MST 380	INTRODUCTION TO THE MUSEUM	3
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HIS/MST 419	CURATORSHIP	3
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#### Field Experience (3 credit hours)

HIS/MST 450	MUSEUM INTERNSHIP	3-6
	or HIS/MST INTERNSHIP 488	

#### Museum Studies Electives Selected by Advisment (6 credit hours)

Select two from the following: 6

HIS/MST 379	MUSEUM AND CIVIC ENGAGEMENT	
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HIS/MST 381	THE ROLE OF THE HISTORY MUSEUM	
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HIS/MST 420	ADMINISTRATION OF THE HISTORICAL AGENCY OR ART MUSEUM	
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HIS/MST 425	MUSEUM PRESERVATION AND PRACTICE	
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HIS/MST 480	DIGITAL MUSEUM COLLECTIONS	
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#### Elective Content Selected by Advisment (6 credit hours)

Two elective classes from related field of study (may be chosen from major field of study) 6

**Total Credit Hours 21**

## Music (B.A.)

BA-AS MUS

### Music Department Bachelor of Arts (HEGIS 1005)

National Association of Schools of Music (Accredited)

Rockwell Hall 203  
(716) 878-6401

[music.buffalostate.edu/music-ba](http://music.buffalostate.edu/music-ba) (<http://music.buffalostate.edu/music-ba/>)

The Bachelor of Arts in Music degree is designed to provide candidates with broad musical knowledge and applied experiences in a liberal arts context, offering opportunities to integrate music into a variety of disciplines. All Music Department faculty participate in varied instructional aspects of the BA degree, teaching courses in music theory, history, literature, and aural perception, leading instrumental and vocal ensembles, and offering applied studio instruction.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39

#### Musicianship Major Requirements (33 credit hours)

MUS 122	INTRODUCTION TO MUSIC STUDIES AND CAREERS	2
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MUS 206	FOUNDATIONS OF AMERICAN POPULAR MUSIC 1900-1950	3
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MUS 218	AURAL PERCEPTION I	1
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MUS 219	AURAL PERCEPTION II	1
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MUS 230	MUSIC THEORY I	3
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MUS 231	MUSIC THEORY II	3
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MUS 302	MUSIC HISTORY: ANTIQUITY THROUGH BAROQUE	3
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MUS 303	MUSIC HISTORY: CLASSIC THROUGH MODERN	3
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MUS 318	AURAL PERCEPTION III	1
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MUS 319	AURAL PERCEPTION IV	1
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MUS 321	COMPOSITION, IMPROVISATION AND ARRANGING	2
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MUS 330	MUSIC THEORY III	3
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MUS 331	MUSIC THEORY IV	3
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MUS 440	ETHNOMUSICOLOGY	3
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MUS 491	CAPSTONE IN MUSIC	1
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#### Musical Performance Requirements (10 credit hours)

Select 4 semesters; 4 credit hours from the following: 4

MUS 171	APPLIED MUSIC	
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MUS 173	APPLIED MUSIC	
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MUS 271	APPLIED MUSIC	
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MUS 273	APPLIED MUSIC	
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Select 6 semesters; 6 credit hours from the following: 6

MUS 290	PHILHARMONIA ORCHESTRA
MUS 313	CHAMBER CHOIR
MUS 314	WIND ENSEMBLE
MUS 335	BUFFALO STATE COLLEGE CHORALE

**Music Electives**  
10 credit hours 10

**All College Electives (Not Music)**  
28-34 credit hours 28-34

**Total Credit Hours 120**

## Music Education (Pre-K–12, B.Mus.)

MUSB-AS MUE

### Music Education in Music Department Bachelor of Music (HEGIS 1005)

National Association of Schools of Music (Accredited)

Rockwell Hall 203  
(716) 878-6401

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The Music Education program leads to a New York State Initial Certificate for teaching general, vocal, and instrumental music in New York State schools at the pre-kindergarten through grade 12 levels. The program requires intensive study in music performance, music history, music theory, and methodology of teaching, with an emphasis on world music and urban culture.

For current information regarding policies and procedures for music program acceptance, continuance, and completion, visit [music.buffalostate.edu/music-major-handbook](http://music.buffalostate.edu/music-major-handbook) (<http://music.buffalostate.edu/music-major-handbook/>).

### Program Requirements

Code	Title	Credit Hours
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Intellectual Foundations Requirements (p. )  
33-39 credit hours <sup>1</sup>

### Basic Musicianship and Performance Major Requirements (70 credit hours)

*Applied Instruction*

Select 7 semesters; 7 credit hours from the following: 7

MUS 171	APPLIED MUSIC
MUS 173	APPLIED MUSIC
MUS 271	APPLIED MUSIC
MUS 273	APPLIED MUSIC
MUS 371	APPLIED MUSIC
MUS 373	APPLIED MUSIC

MUS 471	APPLIED MUSIC
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### Ensemble Requirement

Select 7 semesters; 7 credit hours from the following: 7

MUS 290	PHILHARMONIA ORCHESTRA
MUS 313	CHAMBER CHOIR
MUS 314	WIND ENSEMBLE
MUS 335	BUFFALO STATE COLLEGE CHORALE
MUS 113	BRASS TECHNIQUES
MUS 114	PERCUSSION TECHNIQUES
MUS 115	STRING TECHNIQUES
MUS 116	WOODWIND TECHNIQUES
MUS 119	VOCAL PEDAGOGY
MUS 122	INTRODUCTION TO MUSIC STUDIES AND CAREERS
MUS 206	FOUNDATIONS OF AMERICAN POPULAR MUSIC 1900-1950
MUS 218	AURAL PERCEPTION I
MUS 219	AURAL PERCEPTION II
MUS 220	TECHNOLOGY APPLICATIONS FOR MUSIC EDUCATION
MUS 230	MUSIC THEORY I
MUS 231	MUSIC THEORY II
MUS 302	MUSIC HISTORY: ANTIQUITY THROUGH BAROQUE
MUS 303	MUSIC HISTORY: CLASSIC THROUGH MODERN
MUS 318	AURAL PERCEPTION III
MUS 319	AURAL PERCEPTION IV
MUS 321	COMPOSITION, IMPROVISATION AND ARRANGING
MUS 322	INSTRUMENTAL CONDUCTING
MUS 330	MUSIC THEORY III
MUS 331	MUSIC THEORY IV
MUS 333	CHORAL CONDUCTING
MUS 345	ELEMENTARY MUSIC METHODS
MUS 346	FIELD EXPERIENCE IN ELEMENTARY MUSIC
MUS 353	FIELD EXPERIENCE IN MUSIC FOR EXCEPTIONAL LEARNERS
MUS 360	SECONDARY INSTRUMENTAL MUSIC METHODS
MUS 361	FIELD EXPERIENCE IN SECONDARY INSTRUMENTAL MUSIC
MUS 362	SECONDARY CHORAL METHODS
MUS 363	FIELD EXPERIENCE IN SECONDARY CHORAL MUSIC
MUS 364	FIELD EXPERIENCE IN COMMUNITY MUSIC
MUS 440	ETHNOMUSICOLOGY

### Professional Education Requirements (30 credit hours)

SPF 203	SCHOOL AND SOCIETY
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SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION
EDU 211	INTRODUCTION TO LITERACY
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS
MUS 457	STUDENT TEACHING IN ELEMENTARY MUSIC
MUS 458	STUDENT TEACHING IN SECONDARY MUSIC
MUS 460	STUDENT TEACHING SEMINAR
In addition to the course requirements for music education majors, the class piano sequence is strongly recommended in the freshman and sophomore years of study:	
MUS 161	CLASS PIANO I
MUS 162	CLASS PIANO II
MUS 261	CLASS PIANO III
MUS 262	CLASS PIANO IV
<b>Total Credit Hours</b>	<b>133-139</b>

<sup>1</sup> Up to 6 general education (IF 14) courses (math/quantitative reasoning, American Civilization, Non-western Civilization, Global and Diversity) may overlap with required courses in the major which could significantly reduce the total number to 120-121 credit hours required. Advisement is strongly encouraged.

## Painting (B.F.A.)

BFA-AS PTG

### Art and Design Department Bachelor of Fine Arts (HEGIS 1002)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD)  
Accredited

The B.F.A. degree in Painting is a studio-intensive program of study that prepares students to produce work of professional competence focusing on mastery of both traditional and contemporary practices and technical skills as well as individual creative expression with a strong emphasis on concept, and aesthetics informed by required Art History courses and topics. This 78-credit hour degree prepares students for advanced studies, graduate studies, or for beginning careers as professional painters or visual artists.

The remaining credit hours are completed in required Intellectual Foundations courses.

The Art and Design Department reserves the right to retain students' artwork for official purposes, such as exhibits, catalogs, or teaching aids.

## Admission Requirements

No entrance portfolio is required for admission of incoming students (including both Freshman and Transfer students), who choose to major in the BFA Painting Program.

Incoming students and transfer students can declare their BFA painting major during their admission application process without a portfolio review.

All students enter as a Bachelor of Fine Arts painting major and complete a selection of foundation and major courses. During their second year of the programs individual reviews will be conducted to assist students on their progress towards their degree.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Fine Arts Major Requirements (78 credit hours)</b>		
<i>Required Courses (45 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
FAR/AAD 101	DRAWING I	3
FAR 102	DRAWING II	3
FAR 103	MODELING	3
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
FAR 210	INTRODUCTORY PAINTING	3
FAR 220	INTRODUCTORY PHOTOGRAPHY	3
FAR 230	INTRODUCTORY PRINTMAKING	3
FAR 240	INTRODUCTORY SCULPTURE	3
FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
FAR 363	TWENTIETH-CENTURY ART HISTORY	3
FAR 470	SENIOR SEMINAR IN FINE ARTS	3
Two are history electives		6
<i>Painting Courses (21 credit hours)</i>		
FAR 311	INTERMEDIATE PAINTING I	3
FAR 312	INTERMEDIATE PAINTING II	3
FAR 313	ADVANCED PAINTING	3-9
FAR 410	SENIOR STUDIO IN PAINTING	6
<i>Art Electives</i>		
12 credit hours		
<b>All College Electives</b>		



3-9 credit hours	3-9
<b>Total Credit Hours</b>	<b>120</b>

## Painting Minor

PTG

### Art and Design Department

Upton Hall 402  
(716) 878-6032

It is often desirable for students in areas such as art education and design to pursue a concentrated, but not all-encompassing, study of an art discipline outside of their major field. This widens the students' perspective, increases their professional and job-related opportunities and enhances qualifications for those planning to pursue a graduate degree, as well as satisfies other personal interests. Many students do this now but receive no formal recognition of their work. This minor program in painting meets the needs of these students and recognizes their efforts and achievements.

No entrance portfolio is required for admission to the painting minor program.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (18 credit hours)</b>		
FAR 101	DRAWING I	3
FAR 210	INTRODUCTORY PAINTING	3
FAR 311	INTERMEDIATE PAINTING I	3
FAR 312	INTERMEDIATE PAINTING II	3
FAR 313	ADVANCED PAINTING	6
<b>Total Credit Hours</b>		<b>18</b>

## Philosophy (B.A.)

BA-AS PHI

### Philosophy Department Bachelor of Arts (HEGIS 1509)

Buckham B221  
(716) 878-5136

The Philosophy Major at Buffalo State College is built around four guiding principles designed to make you a more versatile professional, a more valuable employee, and a more successful person throughout your life. Each of them can be found in every course we offer, but some of them are especially prominent in particular courses. As a philosophy major, you'll learn to:

- Comprehend texts, particularly philosophical texts.
- Understand and clearly articulate concepts, particularly "fundamental and powerful concepts" (e.g., truth, knowledge, justification, evidence, respect, justice, good, right, value, argument, reason, validity, soundness).
- Form, evaluate, justify, defend, and apply positions on complicated, everyday issues in written and oral form.
- Prioritize wisdom over trivialities

- Appreciate the importance of truth to rational inquiry.
- Recognize the conceptions and perspectives of others and their foundations.
- Accept and apply critical feedback on philosophical work.

### Major Requirements

The major is 30 credits in total. For each of the principles above, you must successfully complete a course that puts special emphasis on that principle. Since logical reasoning is at the core of everything we do, you are also required to successfully complete one of the logic courses. Finally, a seminar course will help to polish the skills you've learned throughout your study and bring it all together before you graduate.

As a foundational discipline, studying philosophy also helps with the study of other disciplines, which means that, at only 30 credit hours, philosophy is an excellent choice for a second major.

A departmental Honors program is also available. Students should contact the department chair for additional information.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Philosophy Major Requirements (30 credit hours)</b>		
<i>Required Courses (12 credit hours)</i>		
PHI 317	PLATO AND ARISTOTLE	3
PHI 318	DESCARTES TO KANT	3
PHI 401	PROBLEMS IN PHILOSOPHY SEMINAR	3
	or PHI 402 SEMINAR IN HISTORY OF PHILOSOPHY	
Select one from the following:		3
PHI 107	INTRODUCTION TO MATHEMATICAL LOGIC	
PHI 103	INTRODUCTION TO LOGIC	
PHI 307	SYMBOLIC LOGIC	
<i>Electives (18 credit hours)</i>		
Select six from the following:		18
PHI 101	INTRODUCTION TO PHILOSOPHY	
PHI 102	INTRODUCTION TO ETHICS	
PHI 110	THE MEANING OF LIFE	
PHI 111	ETHICS FOR SCIENTISTS	
PHI 204	PHILOSOPHY OF RELIGION	
PHI 207	PHILOSOPHY IN LITERATURE	
PHI 210	EXISTENTIALISM	
PHI 221	PHILOSOPHY AND YOGA	
PHI 300	PROBLEMS OF PHILOSOPHY	
PHI 301	JUSTICE: LIBERTY VS. EQUALITY	
PHI 302	PHILOSOPHY OF ART AND BEAUTY	
PHI 304	PHILOSOPHY OF LAW	
PHI 305	PHILOSOPHY OF LANGUAGE	

PHI 308	PHILOSOPHY OF LOVE AND SEX
PHI 309	KNOWLEDGE AND JUSTIFICATION
PHI 310	HISTORY OF ETHICS
PHI 312	PHILOSOPHY OF MIND
PHI 314	RIGHTS AND RESPECT
PHI 324	ZEN BUDDHISM
PHI 333	PHILOSOPHY OF NATURAL SCIENCES
PHI 334	PHILOSOPHY OF SOCIAL SCIENCES
PHI 347	WORLD OF SOCRATES
PHI 351	ETHICS BOWL
PHI 495	SPECIAL PROJECT
PHI 499	INDEPENDENT STUDY

**All College Electives**

51-57 credit hours 51-57

**Total Credit Hours** **120**

## Philosophy Minor

PHI

### Philosophy Department

Buckham B221  
(716) 878-5136

The philosophy minor provides students with skills that facilitate success in their professional, private, and communal lives by equipping them to act wisely in a wide variety of environments and circumstances. These skills include being more thoughtful and reflective, thinking more critically, analyzing and appraising their own and other people's beliefs and values, communicating more effectively, reasoning and arguing more authoritatively, being open to similarities, differences, and alternative perspectives, and creatively solving a wide variety of problems.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (0 credit hours)</b>		
<b>Electives (18 credit hours)</b>		
Select from the following:		18
PHI 101	INTRODUCTION TO PHILOSOPHY	
PHI 102	INTRODUCTION TO ETHICS	
PHI 103	INTRODUCTION TO LOGIC	
PHI 107	INTRODUCTION TO MATHEMATICAL LOGIC	
PHI 110	THE MEANING OF LIFE	
PHI 111	ETHICS FOR SCIENTISTS	
PHI 204	PHILOSOPHY OF RELIGION	
PHI 207	PHILOSOPHY IN LITERATURE	
PHI 210	EXISTENTIALISM	
PHI 221	PHILOSOPHY AND YOGA	
PHI 300	PROBLEMS OF PHILOSOPHY	

PHI 301	JUSTICE: LIBERTY VS. EQUALITY
PHI 305	PHILOSOPHY OF LANGUAGE
PHI 307	SYMBOLIC LOGIC
PHI 308	PHILOSOPHY OF LOVE AND SEX
PHI 309	KNOWLEDGE AND JUSTIFICATION
PHI 310	HISTORY OF ETHICS
PHI 312	PHILOSOPHY OF MIND
PHI 314	RIGHTS AND RESPECT
PHI 317	PLATO AND ARISTOTLE
PHI 318	DESCARTES TO KANT
PHI 324	ZEN BUDDHISM
PHI 333	PHILOSOPHY OF NATURAL SCIENCES
PHI 334	PHILOSOPHY OF SOCIAL SCIENCES
PHI 347	WORLD OF SOCRATES
PHI 351	ETHICS BOWL
PHI 401	PROBLEMS IN PHILOSOPHY SEMINAR
PHI 402	SEMINAR IN HISTORY OF PHILOSOPHY
PHI 495	SPECIAL PROJECT
PHI 499	INDEPENDENT STUDY

**Total Credit Hours** **18**

No student may declare a minor in the same discipline as their major, therefore, a Philosophy major may not declare a philosophy minor.

## Photography (B.F.A.)

BFA-AS PHO

### Art and Design Department Bachelor of Fine Arts (HEGIS 1011)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD) Accredited

The discipline emphasized in our B.F.A. program is art photography — specifically the creation of art to be displayed in museums, sold in galleries, or published in books. Graduates of our program may also find receptive employers in advertising, and editorial illustration.

A major is required to mount an individual exhibition of his or her work in their senior year. It will be planned and installed with the advice of the student's Senior Studio adviser, but no grade will be assigned.

Students are expected to assume the costs of certain materials and cameras (film and digital) needed to make photographs. Cameras and other photography equipment are not provided to do course work by the college. However, we do provide a well-equipped computer/digital-printing lab for color, a black-and-white film developing lab, and a print-enlarging lab to make traditional monochromatic silver prints. All photography

courses have a materials fee. This fee covers chemistry, ink jet inks, certain ink jet papers, and some other materials. The fee does not cover film, cameras, flash equipment, and other equipment and supplies needed by all majors. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class

The study of photography in the Fine Arts emphasizes creativity, craft, and making memorable pictures. Our courses teach film and digital camera craft, traditional film developing and print enlarging, the use of electronic flash, the use of computers and ink jet printers, color management, and Photoshop as used by photographers. Some of our students go on to do graduate degrees and to teach. Our graduates include self-employed artists, freelance photographers, and teachers. The art world, advertising, photojournalism, education, and industry are some fields in which our graduates have found employment.

### Admission Requirements

High school students applying for admission to the B.F.A. photography major need only state his/her intent to major in photography to be accepted to the major, assuming required G.P.A. and other college admissions standards are met. A portfolio is not required. A transfer student who has studied photography elsewhere seeking advanced placement may be accepted directly into the major, but must show a portfolio of photographs to be evaluated at the Area Coordinator's discretion, for appropriate placement here. The portfolio must contain 10, silver black-and-white, 8"x10" prints enlarged from film, and 10, 8.5"x11" color ink jet prints. These prints should represent the applicant's strongest pictures.

The Art and Design Department reserves the right to retain students' artwork for use in exhibits, catalogs, or as teaching aids.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Fine Arts Major Requirements (78 credit hours)</b>		
<i>Required Courses (45 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
FAR/AAD 101	DRAWING I	3
FAR 102	DRAWING II	3
FAR 103	MODELING	3
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
FAR 210	INTRODUCTORY PAINTING	3
FAR 220	INTRODUCTORY PHOTOGRAPHY	3
FAR 230	INTRODUCTORY PRINTMAKING	3
FAR 240	INTRODUCTORY SCULPTURE	3
FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3

FAR 325	HISTORY OF PHOTOGRAPHY	3
FAR 363	TWENTIETH-CENTURY ART HISTORY	3
FAR 470	SENIOR SEMINAR IN FINE ARTS	3
One Art History elective		3
<i>Photography Courses (21 credit hours)</i>		
FAR 321	INTERMEDIATE PHOTOGRAPHY I	3
FAR 322	INTERMEDIATE PHOTOGRAPHY II	3
FAR 323	ADVANCED PHOTOGRAPHY	3-9
FAR 420	SENIOR STUDIO IN PHOTOGRAPHY	6
<i>Art Electives (12 credit hours)</i>		
12 credit hours		12
<b>All College Electives</b>		
3-9 credit hours		3-9
<b>Total Credit Hours</b>		<b>120-126</b>

## Photography Minor

PHO

### Art and Design Department

Upton Hall 402  
(716) 878-6032

It is often desirable for students in areas such as art education and design to pursue a concentrated, but not all-encompassing, study of an art discipline outside of their major field. This widens the students' perspective, increases their professional and job-related opportunities and enhances qualifications for those planning to pursue a graduate degree, as well as satisfies other personal interests. Many students do this now but receive no formal recognition of their work. This minor program in photography meets the needs of these students and recognizes their efforts and achievements.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (21 credit hours)</b>		
FAR 101 or FAR 103	DRAWING I MODELING	3
FAR 220	INTRODUCTORY PHOTOGRAPHY	3
FAR 321	INTERMEDIATE PHOTOGRAPHY I	3
FAR 322	INTERMEDIATE PHOTOGRAPHY II	3
FAR 323	ADVANCED PHOTOGRAPHY	6
FAR 325	HISTORY OF PHOTOGRAPHY	3
<b>Total Credit Hours</b>		<b>21</b>

## Physics (B.A.)

BA-AS PHY

**Physics Department**  
**Bachelor of Arts (HEGIS 1902)**

SAMC 162  
 (716) 878-6726

The physics B.A. program provides a good concentration in physics courses and a broad distribution in the liberal arts. It prepares students for technical or technically related graduate school studies or employment.

**Admission Requirements**

Mathematics preparation through precalculus is required.

**Program Requirements**

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. 58)		
28 credit hours		28
<b>Physics Major Requirements (36 credit hours)</b>		
<i>Required Core Courses (27 credit hours)</i>		
PHY 111	UNIVERSITY PHYSICS I	5
PHY 112	UNIVERSITY PHYSICS II	5
PHY 213	UNIVERSITY PHYSICS III	3
PHY 214	OPTICS AND HEAT LABORATORY	1
PHY 305	MODERN PHYSICS I	3
PHY 306	MODERN PHYSICS II	3
PHY 310	COMPUTATIONAL PHYSICS LABORATORY	3
PHY 320	INTRODUCTION TO THEORETICAL PHYSICS	4
<i>Electives in Physics (9 credit hours)</i>		
Select from the following:		9
PHY 308	OPTICS	
PHY 315	HEAT AND THERMODYNAMICS	
PHY 323	STATICS	
PHY 324	ELECTRIC CIRCUIT ANALYSIS	
PHY 340	NONLINEAR DYNAMICS AND CHAOS	
PHY 410	ADVANCED PHYSICS LABORATORY	
PHY 425	CLASSICAL MECHANICS	
PHY 435	INTRODUCTION TO QUANTUM MECHANICS	
PHY 440	ELECTRICITY AND MAGNETISM I	
PHY 441	ELECTRICITY AND MAGNETISM II	
<b>Required Credit Hours Outside the Major (23 credit hours)</b>		
CHE 111	FUNDAMENTALS OF CHEMISTRY I	3
CHE 112	FUNDAMENTALS OF CHEMISTRY II	3
CHE 113	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I	1

CHE 114	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II	1
MAT 161	CALCULUS I	4
MAT 162	CALCULUS II	4
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	1
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	1
MAT 263	CALCULUS III	4
MAT 264	USING TECHNOLOGY TO EXPLORE CALCULUS III	1

**All College Electives**

33 credit hours 33

**Total Credit Hours 120**

## Physics (B.S.)

BS-AS PHY

**Physics Department**  
**Bachelor of Science (HEGIS 1902)**

SAMC 162  
 (716) 878-6726

The physics B.S. program gives a broad background in the fundamental concepts and applications of physics. This background is appropriate for further study in graduate school, or for scientific employment in physics or physics-related fields.

Students in this program may pursue a four-year physics degree or they may choose the "three-two" option.

Transfer students must take a minimum of 8 credit hours of upper-division courses, including PHY 410, in the Buffalo State Physics Department.

**"Three-Two" Physics Engineering Option**

This program offers an ideal combination of basic and applied science. Students in the Cooperative ("Three-Two") Physics-Engineering program attend Buffalo State for three years pursuing a liberal arts curriculum in physics. After three years, students in good standing transfer to the engineering school of their choice and complete the requirements for an engineering degree in two more years. Engineering schools to which students in the program have transferred in the last two years include Binghamton University and the University at Buffalo (both SUNY universities), and Clarkson University.

**Admission Requirements**

Mathematics preparation through precalculus is required.

**Program Requirements**

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
28 credit hours		28
<b>Physics Major Requirements (46 credit hours)</b>		
<i>Required Core Courses (27 credit hours)</i>		
PHY 111	UNIVERSITY PHYSICS I	5
PHY 112	UNIVERSITY PHYSICS II	5

PHY 213	UNIVERSITY PHYSICS III	3
PHY 214	OPTICS AND HEAT LABORATORY	1
PHY 305	MODERN PHYSICS I	3
PHY 306	MODERN PHYSICS II	3
PHY 310	COMPUTATIONAL PHYSICS LABORATORY	3
PHY 320	INTRODUCTION TO THEORETICAL PHYSICS	4

*Additional Required Courses for the "Three-Two" Option (9 credit hours)*

PHY 324	ELECTRIC CIRCUIT ANALYSIS	3
PHY 410	ADVANCED PHYSICS LABORATORY	3
PHY 440	ELECTRICITY AND MAGNETISM I	3

Plus 10 credit hours of engineering courses, transferred from engineering school 10

*Additional Required Courses for Four-Year Physics B.S.-Only Degree (19 credit hours)*

PHY 324	ELECTRIC CIRCUIT ANALYSIS	3
PHY 410	ADVANCED PHYSICS LABORATORY	3
PHY 425	CLASSICAL MECHANICS	4
PHY 435	INTRODUCTION TO QUANTUM MECHANICS	3
PHY 440	ELECTRICITY AND MAGNETISM I	3
PHY 441	ELECTRICITY AND MAGNETISM II	3

**Required Credit Hours Outside the Major (26 credit hours)**

CHE 111	FUNDAMENTALS OF CHEMISTRY I	3
CHE 112	FUNDAMENTALS OF CHEMISTRY II	3
CHE 113	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I	1
CHE 114	LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II	1
MAT 161	CALCULUS I	4
MAT 162	CALCULUS II	4
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	1
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	1
MAT 263	CALCULUS III	4
MAT 264	USING TECHNOLOGY TO EXPLORE CALCULUS III	1
MAT 315	DIFFERENTIAL EQUATIONS	3

**All College Electives**

11 credit hours	11
<b>Total Credit Hours</b>	<b>120</b>

## Physics Minor

PHY

### Physics Department

SAMC 162  
(716) 878-5004

Physics helps students understand the world; it is the most basic and fundamental science. In addition, physics provides the basis of many other sciences, including chemistry, oceanography, seismology, and astronomy (and it can be applied to biology or medical science). The physics minor provides an excellent way for mathematics-minded students to enhance their undergraduate experience.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (19 credit hours)</b>		
PHY 111	UNIVERSITY PHYSICS I	5
PHY 112	UNIVERSITY PHYSICS II	5
PHY 213	UNIVERSITY PHYSICS III	3
PHY 305	MODERN PHYSICS I	3
PHY 306	MODERN PHYSICS II	3
<b>Electives (3 credit hours)</b>		
Select from the following:		3
PHY 308	OPTICS	
PHY 310	COMPUTATIONAL PHYSICS LABORATORY	
PHY 315	HEAT AND THERMODYNAMICS	
PHY 320	INTRODUCTION TO THEORETICAL PHYSICS	
PHY 324	ELECTRIC CIRCUIT ANALYSIS	
PHY 410	ADVANCED PHYSICS LABORATORY	
PHY 425	CLASSICAL MECHANICS	
PHY 440	ELECTRICITY AND MAGNETISM I	
PHY 441	ELECTRICITY AND MAGNETISM II	
PHY 495	SPECIAL PROJECT	
<b>Prerequisites</b>		
MAT 161	CALCULUS I	
MAT 162	CALCULUS II	
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	
MAT 263	CALCULUS III	
MAT 264	USING TECHNOLOGY TO EXPLORE CALCULUS III	

**Total Credit Hours** 22

## Political Science (B.A.)

BA-AS PSC

**Political Science Department  
Bachelor of Arts (HEGIS 2207)**

Classroom Building B218  
(716) 878-6116

Political science is the study of government and politics. The major is divided into five areas: American government and politics, international politics, comparative politics, political theory, and public law. The program offers a variety of courses in each of these areas. Minors are offered in public administration, political science, legal studies and international relations.

Students gain an understanding of government and politics through a combination of directed research and experiential learning; e.g. participation in scholarly conferences and/or internships at the national, state or local level. Students may prepare for an array of career options in both the public and private sectors.

The Bachelor of Arts program in Political Science enables students to concentrate their studies either in Public Legal Studies, or Urban Civic Engagement, , or to develop a more individualized broader program of study under the General Political Science concentration.

**Program Requirements**

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
30-33	credit hours	30-33
<b>Political Science Major Requirements (39 credit hours)</b>		
Students will select one of the following concentrations:		39
General Political Science Concentration (p. 165)		
Urban Civic Engagement Concentration (p. 166)		
Public Legal Studies Concentration (p. 167)		
<b>All College Electives</b>		
48-51	credit hours	48-51
<b>Total Credit Hours</b>		<b>120</b>

General Political Science Concentration

Code	Title	Credit Hours
<b>Required Courses (18 credit hours)</b>		
PSC 101	INTRODUCTION TO GOVERNMENT AND POLITICS	3
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS	3
PSC 203	POLITICAL ANALYSIS	3
PSC 204	POLITICAL STATISTICS	3
PSC 399	RESEARCH SKILLS	3
PSC 470	SENIOR SEMINAR	3
or PSC 488	INTERNSHIP	

**Political Science Distribution Requirements (12 credit hours)**

Students choose one course from four of five of the distribution areas (American Government, International Relations, Comparative Government, Political Theory, Philosophy and Public Law)

*American Government and Politics (3 credit hours)*

Select one of the following: 3

PSC 210	THE AMERICAN PRESIDENCY
PSC 218	AFRICAN AMERICAN POLITICAL CULTURE
PSC 225	WOMEN IN AMERICAN POLITICS
PSC 310	AMERICAN POLITICAL PARTIES
PSC 311	INTEREST GROUPS
PSC 312	LEGISLATIVE PROCESS
PSC 315	STATE AND LOCAL GOVERNMENT AND POLITICS
PSC 326	POLITICS AND MEDIA
PSC 410	POLITICAL BEHAVIOR AND PUBLIC OPINION

*International Relations (3 credit hours)*

Select one from the following: 3

PSC 230	INTERNATIONAL RELATIONS
PSC 302	INTERNATIONAL CONFLICT AND PEACEFUL RESOLUTION
PSC 305	ENVIRONMENTAL POLICY
PSC 308	INTERNATIONAL ORGANIZATIONS AND INTERNATIONAL LAW
PSC 309	INTERNATIONAL POLITICAL ECONOMY
PSC 330	AMERICAN FOREIGN POLICY
PSC 333	AFRICAN INTERNATIONAL RELATIONS
PSC 335	INTERNATIONAL RELATIONS OF THE MIDDLE EAST
PSC 336	LATIN AMERICA IN WORLD POLITICS
PSC 337	POLITICS OF GLOBALIZATION
PSC 338	POLITICS AND HISTORY OF MODERN TERRORISM I
PSC 339	POLITICS AND HISTORY OF MODERN TERRORISM II

*Comparative Government (3 credit hours)*

Select one from the following: 3

PSC 240	EUROPEAN POLITICAL SYSTEMS
PSC 340	POLITICS OF DEVELOPING COUNTRIES
PSC 341	GOVERNMENT, POLITICS, AND POLICIES OF THE EUROPEAN UNION
PSC 342	RUSSIAN POLITICS
PSC 344	COMPARATIVE DEMOCRACY
PSC 345/ HIS 313	POLITICS AND HISTORY OF THE MIDDLE EAST

*Political Theory and Philosophy (3 credit hours)*

Select one from the following: 3

PSC 351	HISTORY OF POLITICAL THOUGHT I
PSC 352	HISTORY OF POLITICAL THOUGHT II
PSC 355	AMERICAN POLITICAL THOUGHT
PSC 375	RACE, SEX, AND POLITICS OF MYTH AND STORY
PSC 450	CONTEMPORARY POLITICAL THOUGHT
<i>Public Law (3 credit hours)</i>	
Select one from the following:	
PSC 250	INTRODUCTION TO LAW
PSC 317	U.S. CONSTITUTIONAL LAW
PSC 320	U.S. CIVIL LIBERTIES
PSC 321	CIVIL PROCEDURE
PSC 420	CONTEMPORARY CONSTITUTIONAL ISSUES
PSC 421	DISCRIMINATION AND THE U.S. CONSTITUTION
PSC 485	MOCK TRIAL
<b>General Electives in Political Science (9 credit hours)</b>	
Courses NOT used to fulfill Political Distribution Requirements may also be used as Political Science electives. 9	
PSC 103	GREAT POLITICAL ISSUES
PSC 215	URBAN GOVERNMENT
PSC 306	POLITICS OF ENERGY
PSC 313	CIVIC ENGAGEMENT
PSC 316	URBAN ETHNIC POLITICS
PSC 318	DEMOCRACY AND PEACE: PRINCIPLES AND PRACTICES IN THE URBAN EXPERIENCE
PSC 319	GAY, LESBIAN, BISEXUAL, TRANSGENDER, QUESTIONING POLITICS
PSC 325	POLITICS OF WELFARE
PSC 327	PRACTICAL POLITICS
PSC 360	PUBLIC ADMINISTRATION
PSC 364	AMERICAN PUBLIC POLICY
PSC 368	COMPARATIVE PUBLIC ADMINISTRATION
PSC 370	CANADIAN PUBLIC ADMINISTRATION
PSC 389	TOPICS IN POLITICAL SCIENCE
PSC 390	THE ITALIAN-AMERICAN EXPERIENCE: POLITICS, SOCIETY, & IDENTITY
PSC 415	URBAN PUBLIC POLICY
PSC 495	SPECIAL PROJECT
PSC 497	WASHINGTON SEMESTER
PSC 499	INDEPENDENT STUDY

Urban Civic Engagement Concentration		
<b>Code</b>	<b>Title</b>	<b>Credit Hours</b>
<b>Required Courses (24 credit hours)</b>		
PSC 101	INTRODUCTION TO GOVERNMENT AND POLITICS	3
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS	3
PSC 203	POLITICAL ANALYSIS	3
PSC 204	POLITICAL STATISTICS	3
PSC 215	URBAN GOVERNMENT	3
PSC 313	CIVIC ENGAGEMENT	3
PSC 399	RESEARCH SKILLS	3
PSC 470	SENIOR SEMINAR	3
or PSC 488 INTERNSHIP		
<b>Political Science Distribution Requirements (9 credit hours)</b>		
<i>American Government and Politics (3 credit hours)</i>		
Must take one of the following: 3		
PSC 315	STATE AND LOCAL GOVERNMENT AND POLITICS	
PSC 410	POLITICAL BEHAVIOR AND PUBLIC OPINION	
<i>International Relations/Comparative Government (3 credit hours)</i>		
Must take one of the following: 3		
PSC 309	INTERNATIONAL POLITICAL ECONOMY	
PSC 337	POLITICS OF GLOBALIZATION	
PSC 340	POLITICS OF DEVELOPING COUNTRIES	
<i>Political Theory and Philosophy (3 credit hours)</i>		
Must take one of the following: 3		
PSC 355	AMERICAN POLITICAL THOUGHT	
PSC 375	RACE, SEX, AND POLITICS OF MYTH AND STORY	
<b>Electives: Urban Civic Engagement Concentration (6 credit hours)</b>		
Select two from the following: 6		
PSC 305	ENVIRONMENTAL POLICY	
PSC 306	POLITICS OF ENERGY	
PSC 311	INTEREST GROUPS	
PSC 317	U.S. CONSTITUTIONAL LAW	
PSC 318	DEMOCRACY AND PEACE: PRINCIPLES AND PRACTICES IN THE URBAN EXPERIENCE	
PSC 320	U.S. CIVIL LIBERTIES	
PSC 325	POLITICS OF WELFARE	
PSC 326	POLITICS AND MEDIA	
PSC 327	PRACTICAL POLITICS	
PSC 360	PUBLIC ADMINISTRATION	
PSC 364	AMERICAN PUBLIC POLICY	
PSC 415	URBAN PUBLIC POLICY	
PSC 420	CONTEMPORARY CONSTITUTIONAL ISSUES	

PSC 421	DISCRIMINATION AND THE U.S. CONSTITUTION
SPF/SOC 366	CULTURAL PROFICIENCY AND PUBLIC ACHIEVEMENT
SWK 301	POVERTY AND PUBLIC POLICY

Public Legal Studies Concentration

Code	Title	Credit Hours
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**Required Courses (27 credit hours)**

PSC 101	INTRODUCTION TO GOVERNMENT AND POLITICS	3
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS	3
PSC 203	POLITICAL ANALYSIS	3
PSC 204	POLITICAL STATISTICS	3
PSC 250	INTRODUCTION TO LAW	3
PSC 317	U.S. CONSTITUTIONAL LAW	3
or PSC 320	U.S. CIVIL LIBERTIES	
PSC 398	LEGAL RESEARCH AND WRITING	3
PSC 399	RESEARCH SKILLS	3
PSC 470	SENIOR SEMINAR	3
or PSC 488	INTERNSHIP	

**Political Science Distribution Requirements (12 credit hours)**

*American Government and Politics (6 credit hours)*

Must take one of the following: 6

PSC 210	THE AMERICAN PRESIDENCY
PSC 312	LEGISLATIVE PROCESS
PSC 321	CIVIL PROCEDURE
PSC 420	CONTEMPORARY CONSTITUTIONAL ISSUES
PSC 421	DISCRIMINATION AND THE U.S. CONSTITUTION
PSC 485	MOCK TRIAL

*International Relations/Comparative Government (3 credit hours)*

Must take one of the following: 3

PSC 308	INTERNATIONAL ORGANIZATIONS AND INTERNATIONAL LAW
PSC 309	INTERNATIONAL POLITICAL ECONOMY
PSC 344	COMPARATIVE DEMOCRACY

*Political Theory and Philosophy (3 credit hours)*

Must take one of the following: 3

PSC 351	HISTORY OF POLITICAL THOUGHT I
PSC 355	AMERICAN POLITICAL THOUGHT
PSC 450	CONTEMPORARY POLITICAL THOUGHT

## Political Science Minor

PSC

### Political Science Department

Classroom Building B218  
(716) 878-6116

Political science is the study of government and politics. The Political Science Minor is divided into three areas: a required introductory course; distribution courses selected from American government, politics, and public law courses, International Relations and Comparative Government courses, and Political Theory; and elective courses. The program offers a variety of courses in each of these areas.

Students gain an understanding of government and politics through a combination of directed reading and writing exercises. A minor in Political Science may help students to prepare for an array of career options in both the public and private sectors.

### Program Requirements

Code	Title	Credit Hours
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**Required Courses (18 credit hours)**

Select one from the following: 3

PSC 101	INTRODUCTION TO GOVERNMENT AND POLITICS
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS
PSC 103	GREAT POLITICAL ISSUES

**Distribution Requirements (9 credit hours)**

Select one from each category: 9

*American Government, Politics, and Public Law*

PSC 210	THE AMERICAN PRESIDENCY
PSC 218	AFRICAN AMERICAN POLITICAL CULTURE
PSC 225	WOMEN IN AMERICAN POLITICS
PSC 250	INTRODUCTION TO LAW
PSC 311	INTEREST GROUPS
PSC 312	LEGISLATIVE PROCESS
PSC 315	STATE AND LOCAL GOVERNMENT AND POLITICS
PSC 317	U.S. CONSTITUTIONAL LAW
PSC 320	U.S. CIVIL LIBERTIES
PSC 321	CIVIL PROCEDURE
PSC 326	POLITICS AND MEDIA
PSC 360	PUBLIC ADMINISTRATION
PSC 410	POLITICAL BEHAVIOR AND PUBLIC OPINION
PSC 421	DISCRIMINATION AND THE U.S. CONSTITUTION
PSC 485	MOCK TRIAL

*International Relations and Comparative Government*

PSC 230	INTERNATIONAL RELATIONS
PSC 240	EUROPEAN POLITICAL SYSTEMS
PSC 305	ENVIRONMENTAL POLICY



PSC 308	INTERNATIONAL ORGANIZATIONS AND INTERNATIONAL LAW
PSC 309	INTERNATIONAL POLITICAL ECONOMY
PSC 330	AMERICAN FOREIGN POLICY
PSC 333	AFRICAN INTERNATIONAL RELATIONS
PSC 335	INTERNATIONAL RELATIONS OF THE MIDDLE EAST
PSC 336	LATIN AMERICA IN WORLD POLITICS
PSC 337	POLITICS OF GLOBALIZATION
PSC 340	POLITICS OF DEVELOPING COUNTRIES
PSC 341	GOVERNMENT, POLITICS, AND POLICIES OF THE EUROPEAN UNION
PSC 342	RUSSIAN POLITICS
PSC 345/ HIS 313	POLITICS AND HISTORY OF THE MIDDLE EAST

*Political Theory*

PSC 351	HISTORY OF POLITICAL THOUGHT I
PSC 352	HISTORY OF POLITICAL THOUGHT II
PSC 355	AMERICAN POLITICAL THOUGHT
PSC 375	RACE, SEX, AND POLITICS OF MYTH AND STORY
PSC 450	CONTEMPORARY POLITICAL THOUGHT

**General Electives in Political Science (6 credit hours)**

Note: Courses not used to fulfill Required Courses or Distribution Requirements may also be used as general electives in Political Science

Select two from the following: 6

PSC 203	POLITICAL ANALYSIS
PSC 204	POLITICAL STATISTICS
PSC 215	URBAN GOVERNMENT
PSC 306	POLITICS OF ENERGY
PSC 313	CIVIC ENGAGEMENT
PSC 316	URBAN ETHNIC POLITICS
PSC 318	DEMOCRACY AND PEACE: PRINCIPLES AND PRACTICES IN THE URBAN EXPERIENCE
PSC 319	GAY, LESBIAN, BISEXUAL, TRANSGENDER, QUESTIONING POLITICS
PSC 325	POLITICS OF WELFARE
PSC 327	PRACTICAL POLITICS
PSC 360	PUBLIC ADMINISTRATION
PSC 364	AMERICAN PUBLIC POLICY
PSC 389	TOPICS IN POLITICAL SCIENCE
PSC 390	THE ITALIAN-AMERICAN EXPERIENCE: POLITICS, SOCIETY, & IDENTITY
PSC 415	URBAN PUBLIC POLICY

PSC 495	SPECIAL PROJECT
PSC 497	WASHINGTON SEMESTER
PSC 499	INDEPENDENT STUDY

**Total Credit Hours 18**

## Printmaking (B.F.A.)

BFA-AS PRT

**Art and Design Department  
Bachelor of Fine Arts (HEGIS 1009)**

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD) Accredited

All freshman and transfer students are welcomed into the BFA program.

Each B.F.A. student will be required to mount an individual exhibition of his or her work. It will be planned and installed with the advice of the student's faculty adviser, but no grade is assigned. The Art and Design Department reserves the right to retain students' artwork for official purposes, such as exhibits, catalogs, or teaching aids.

### Admission Requirements

Admission to the B.F.A. program is open. Newly declared majors need to schedule a meeting with their new advisor in the major to review their work and become familiarized with the program's requirements.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Fine Arts Major Requirements (78 credit hours)</b>		
<i>Required Courses (45 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
FAR 101/101	DRAWING I	3
FAR 102	DRAWING II	3
FAR 103	MODELING	3
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
FAR 210	INTRODUCTORY PAINTING	3
FAR 220	INTRODUCTORY PHOTOGRAPHY	3
FAR 230	INTRODUCTORY PRINTMAKING	3
FAR 240	INTRODUCTORY SCULPTURE	3

FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
FAR 363	TWENTIETH-CENTURY ART HISTORY	3
FAR 470	SENIOR SEMINAR IN FINE ARTS	3
Two Art History electives		6
<i>Printmaking (21 credit hours)</i>		
FAR 331	INTERMEDIATE PRINTMAKING I	3
FAR 332	INTERMEDIATE PRINTMAKING II	3
FAR 333	ADVANCED PRINTMAKING	3-9
FAR 430	SENIOR STUDIO IN PRINTMAKING	6
<i>Art Electives (12 credit hours)</i>		
12 credit hours		12
<b>All College Electives</b>		
3-9 credit hours		3-9
<b>Total Credit Hours</b>		<b>120</b>

## Printmaking Minor

PRT

### Art and Design Department

Upton Hall 402  
(716) 878-6032

It is often desirable for students in areas such as art education and design to pursue a concentrated, but not all-encompassing, study of an art discipline outside of their major field. This widens the students' perspective, increases their professional and job-related opportunities and enhances qualifications for those planning to pursue a graduate degree, as well as satisfies other personal interests. Many students do this now but receive no formal recognition of their work. This minor program in printmaking meets the needs of these students and recognizes their efforts and achievements.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (15 credit hours)</b>		
FAR 101	DRAWING I	3
FAR 230	INTRODUCTORY PRINTMAKING <sup>1</sup>	3
FAR 331	INTERMEDIATE PRINTMAKING I <sup>1</sup>	3
FAR 332	INTERMEDIATE PRINTMAKING II <sup>1</sup>	3
FAR 335	PAPERMAKING	3-9
<b>Electives (3 credit hours)</b>		
FAR 333	ADVANCED PRINTMAKING	3-9
	or FAR 335 PAPERMAKING	
<b>Total Credit Hours</b>		<b>18</b>

<sup>1</sup> FAR 230, FAR 331, and FAR 332 must cover work in at least two separate media.

## Professional French Minor

PFR

### Modern and Classical Languages

Bishop Hall 122  
(716) 878-5414

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (12 credit hours)</b>		
FRE 203	WORKPLACE FRENCH I	3
FRE 204	WORKPLACE FRENCH II	3
FRE 310	ISSUES IN PROFESSIONAL COMMUNICATION	3
FRE 321	ISSUES AND THEMES IN THE FRANCOPHONE WORLD	3
<b>Electives (9 credit hours)</b>		
Select three from the following:		9
FRE 202	INTERMEDIATE FRENCH II	
FRE 301	INTRODUCTION TO FRANCOPHONE CULTURE	
FRE 302	INTRODUCTION TO FRANCOPHONE MEDIA	
FRE 306	FRENCH CULTURE: PREHISTORY TO THE RENAISSANCE	
FRE 307	FRENCH CULTURE: RENAISSANCE TO REVOLUTION	
FRE 308	FRENCH CULTURE: REVOLUTION TO BELLE EPOQUE	
FRE 309	LITERATURE AND CULTURE OF FRANCE IN THE TWENTIETH CENTURY	
FRE 389	TOPICS COURSE	
FRE 420	LITERATURE AND SOCIETY OF FRANCOPHONE CANADA: 1700 TO THE PRESENT	
FRE 435	FRANCOPHONE AFRICAN LITERATURE IN POST- COLONIAL CONTEXT	
FRE 440	ORIGINS OF MODERN FRANCE	
FRE 455	MOLIERE'S COMEDIES IN SOCIO-CULTURAL CONTEXT	
FRE 460	FRANCO-CARIBBEAN LITERATURE, HISTORY & CULTURE	
FRE 495	SPECIAL PROJECT	
FRE 496	SEMINAR I	
FRE 497	SEMINAR II	
FRE 499	INDEPENDENT STUDY	

**Total Credit Hours** **21**

# Psychology (B.A.)

BA-AS PSY

## Psychology Department Bachelor of Arts (HEGIS 2001)

Classroom Building C312  
(716) 878-6215

Students in the B.A. degree program receive a broad and comprehensive background in the science of psychology, which will qualify them to seek entry to graduate or professional schools, or to apply for jobs that require a liberal arts training. The department's approach is both theoretical and empirical at all levels. The broad content areas represented include learning, perception, lifespan development and aging, animal behavior, industrial/organizational psychology, social processes, and normal and abnormal behavior.

### B.A. Honors in Psychology

Departmental honors are for students who are performing exceptionally well in their courses. The honors designation is an adjunct to the B.A. degree with an added emphasis on independent work, and requires that students conduct a comprehensive original research project under the supervision of a faculty mentor. To be considered, students must have at least 24 credit hours in psychology from Buffalo State with a minimum GPA of 3.5, and a minimum GPA of 3.25 in all courses taken at Buffalo State. In addition to the required courses in the B.A. degree program, honors students must take PSY 496 and PSY 498. A 42-credit-hour sequence of psychology courses is required for a B.A. honors degree. This requirement is identical to that of the B.A. degree except that PSY 496 is used as a psychology elective and PSY 498 is an additional required course. Students should see their adviser no later than the junior year for more information about the honors option.

It is strongly recommended that all Psychology majors take BIO 101 Human Biology as part of their Intellectual Foundations coursework.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Psychology Major Requirements (39 credit hours)</b>		
<i>Required Courses (15 credit hours)</i>		
PSY 101	INTRODUCTION TO PSYCHOLOGY	3
PSY 350	STATISTICS IN PSYCHOLOGICAL RESEARCH <sup>1</sup>	3
PSY 450	RESEARCH METHODS IN PSYCHOLOGY I: INTRODUCTION TO RESEARCH METHODS	3

PSY 471	HISTORY AND SYSTEMS OF PSYCHOLOGY	3
PSY 472	SEMINAR ON PSYCHOLOGY	3
Note: PSY 350, PSY 450 and PSY 472 must be taken in sequence.		
<i>Content Courses (15 credit hours)</i>		
Students must select one course from each of the following groups. The prerequisite for all 300-level courses is PSY 101 with a grade of C or better, unless otherwise noted.		15
<b>Biological and Cognitive Psychology</b>		
PSY 304	LEARNING: THEORY AND RESEARCH	
PSY 308	SENSATION AND PERCEPTION	
PSY 321	COMPARATIVE ANIMAL BEHAVIOR	
PSY 330	THE PSYCHOLOGICAL POWER OF LANGUAGE	
PSY 333	BRAIN AND BEHAVIOR	
PSY 340	COGNITIVE PSYCHOLOGY	
<b>Social/Personality Psychology</b>		
PSY 311	PERSONALITY: THEORY AND RESEARCH	
PSY 325	SOCIAL BEHAVIOR	
<b>Developmental Psychology</b>		
PSY 301	PERSPECTIVES ON CHILD ABUSE AND ADVOCACY	
PSY 327	ADULT DEVELOPMENT AND AGING I	
PSY 355	LIFESPAN DEVELOPMENTAL PSYCHOLOGY	
PSY 356	CHILD DEVELOPMENT	
PSY 357	ADOLESCENT AND YOUNG ADULT DEVELOPMENT	
<b>Clinical Psychology</b>		
PSY 392	ABNORMAL PSYCHOLOGY <sup>2</sup>	
PSY 393	ABNORMAL CHILD PSYCHOLOGY <sup>2</sup>	
<b>Applied Psychology and Diversity</b>		
PSY 365	PSYCHOLOGY IN THE WORKPLACE	
PSY 367	ORGANIZATIONAL BEHAVIOR	
PSY 370	ENVIRONMENTAL PSYCHOLOGY I	
PSY 375	FORENSIC PSYCHOLOGY	
PSY 376	HEALTH PSYCHOLOGY	
PSY 381	PSYCHOLOGY OF CULTURE	
PSY 382	PSYCHOLOGY OF THE CONSUMER	
PSY 383	THE PSYCHOLOGY OF HUMAN SEXUAL BEHAVIOR	
PSY 387	PSYCHOLOGY OF GENDER	
PSY 388	PSYCHOLOGY OF DEATH AND DYING	
<i>Advanced and Electives Selected by Advisement (9 credit hours)</i>		
Three additional courses (9 credit hours) required. At least two courses must be at the 400-level.		9

One course from the following may count toward the major:

PSY 488	INTERNSHIP
PSY 495	SPECIAL PROJECT
PSY 496	HONORS THESIS I
PSY 498	HONORS THESIS II
PSY 499	INDEPENDENT STUDY

#### All College Electives

45-51 credit hours 45-51

**Total Credit Hours** **120**

<sup>1</sup> Prerequisite: At least sophomore status; Completion of the Mathematics/Quantitative Reasoning IF requirement – MAT course only and at MAT 114 or higher

<sup>2</sup> Prerequisite: PSY 101 (<http://ecatalog.buffalostate.edu/search/?P=PSY%20101>) with a Grade of C or higher and 3 additional hours of psychology.

## Psychology (B.S.)

BS-AS PSY

### Psychology Department Bachelor of Science (HEGIS 2001)

Classroom Building C312  
(716) 878-6215

A specialized B.S. degree in psychology is offered in the following concentrations: biological psychology, clinical psychology, environmental psychology, industrial/organizational psychology, psychology of aging, and psychology of infancy. The B.S. program is designed for a very limited number of students who seek an intensive preparation in one of the above areas. Emphasis is placed upon intensive practicum work and independent study. Students have the opportunity to work closely with a faculty mentor.

### B.S. Honors in Psychology

Departmental honors are for students who are performing exceptionally well in their courses. The honors designation is an adjunct to the B.S. degree with an added emphasis on independent work, and requires that students conduct a comprehensive original research project under the supervision of a faculty mentor. To be considered, students must have at least 24 credit hours in psychology from Buffalo State with a minimum GPA of 3.5, and a minimum GPA of 3.25 in all courses taken at Buffalo State. In addition to the required courses in the B.S. degree program, honors students must take PSY 496 and PSY 498. A 42-credit-hour sequence of psychology courses is required for a B.S. honors degree. PSY 496 and PSY 498 may be used, where applicable, as elective courses in these programs. Students should see their adviser no later than the junior year for more information about the honors option.

### Admission Requirements

1. The student must be enrolled in the B.A. program and be in good academic standing at the college before he or she can apply to the B.S. program.
2. The student applying for the B.S. program must have received a minimum grade of B in the first course of the required sequence of B.S. courses for that concentration.

3. For guidance in the application process, the potential B.S. applicant must meet with the faculty coordinator for the specialized B.S. concentration in which the student is interested.
4. A psychology department faculty member must formally sponsor the student.
5. The student must be able to complete a minimum of one academic year of supervised work with his or her sponsor in the B.S. program prior to graduation.
6. Final acceptance into the B.S. program requires approval of the candidate by the psychology department.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39

### Psychology Major Requirements (39-42 credit hours)

#### Required Courses (18 credit hours)

PSY 101	INTRODUCTION TO PSYCHOLOGY	3
PSY 350	STATISTICS IN PSYCHOLOGICAL RESEARCH	3
PSY 450	RESEARCH METHODS IN PSYCHOLOGY I: INTRODUCTION TO RESEARCH METHODS	3
PSY 471	HISTORY AND SYSTEMS OF PSYCHOLOGY	3
PSY 472	SEMINAR ON PSYCHOLOGY	3

Note: PSY 350, PSY 450 and PSY 472 must be taken in sequence. A grade of C or higher is required in PSY 101 and PSY 350. The prerequisites for PSY 350 are at least sophomore status and completion of the IF Mathematics/Quantitative Reasoning requirement (MAT courses only and at MAT 114 level or above).

The prerequisite for all 300-level courses is PSY 101 with a grade of C or better, unless otherwise noted.

Select one from the following: 3

PSY 488	INTERNSHIP
PSY 495	SPECIAL PROJECT
PSY 499	INDEPENDENT STUDY

#### Concentration Courses (21-24 credit hours)

Students are required to complete one of the following concentrations. At least two courses for each concentration must be at the 400 level (excluding the courses listed in Required Courses).

#### Biological Psychology Concentration (24 credit hours)

Select five of the following by advisement:

PSY 304	LEARNING: THEORY AND RESEARCH
PSY 308	SENSATION AND PERCEPTION
PSY 321	COMPARATIVE ANIMAL BEHAVIOR
PSY 333	BRAIN AND BEHAVIOR
PSY 376	HEALTH PSYCHOLOGY

PSY 421	PHYSIOLOGICAL PSYCHOLOGY
PSY 441	INTRODUCTION TO NEUROPSYCHOLOGY
Elective courses selected by advisement (9 credit hours)	
Clinical Psychology Concentration (24 credit hours)	
PSY 311	PERSONALITY: THEORY AND RESEARCH
PSY 392	ABNORMAL PSYCHOLOGY <sup>1</sup>
PSY 480	PSYCHOTHERAPY: THEORY, RESEARCH, AND PROCEDURES
PSY 481	PSYCHOLOGICAL TESTS AND MEASUREMENTS
Elective courses selected by advisement (12 credit hours)	
Environmental Psychology Concentration (24 credit hours)	
PSY 370	ENVIRONMENTAL PSYCHOLOGY I
PSY 470	ENVIRONMENTAL PSYCHOLOGY II
Elective courses selected by advisement (18 credit hours)	
Industrial/Organization Psychology Concentration (24 credit hours)	
PSY 365	PSYCHOLOGY IN THE WORKPLACE
PSY 367	ORGANIZATIONAL BEHAVIOR
PSY 466	PERSONNEL PSYCHOLOGY
Elective courses selected by advisement (15 credit hours)	
Psychology of Aging Concentration (21 credit hours)	
PSY 327	ADULT DEVELOPMENT AND AGING I
PSY 355	LIFESPAN DEVELOPMENTAL PSYCHOLOGY
PSY 427	ADULT DEVELOPMENT AND AGING II
Elective courses selected by advisement (12 credit hours)	
Psychology of Infancy Concentration (21 credit hours)	
PSY 355	LIFESPAN DEVELOPMENTAL PSYCHOLOGY
	or PSY 356 CHILD DEVELOPMENT
PSY 415	THE COMPETENT INFANT
PSY 417	THE ATYPICAL INFANT
Elective courses selected by advisement (12 credit hours)	
<b>All College Electives</b>	
Select 39-48 credit hours from the following: 39-48	
Biological Psychology (18-36 credit hours)	
Clinical Psychology (18-36 credit hours)	
Environmental Psychology (24-36 credit hours)	
Industrial/Organizational Psychology (18-36 credit hours)	

Psychology of Aging (21-39 credit hours)  
Psychology of Infancy (21-39 credit hours)

**Total Credit Hours 120**

<sup>1</sup> Prerequisite: PSY 101 (<http://ecatalog.buffalostate.edu/search/?P=PSY%20101>) Grade of C and 3 additional hours of psychology.

## Psychology Minor

PSY

### Psychology Department

Classroom Building C312  
(716) 878-6215

The field of psychology is broad and relevant to a variety of disciplines. The minor is offered for those students who wish to follow a systematic plan of study in psychology while completing a major in another department. Specifically, the minor is designed to give students a broad background in psychology. As designed, the minor is flexible and should meet the needs of many students. Accordingly, students should seek advisement to determine what courses would best suit their own particular interests and needs.

### Program Requirements

To fulfill the requirements of the minor, students will be required to take 21 hours in psychology to be distributed in the following manner:

Code	Title	Credit Hours
<b>Required Courses (3 credit hours)</b>		
PSY 101	INTRODUCTION TO PSYCHOLOGY	3
<b>Electives (18 credit hours)</b>		
Students must select at least one course from each of the following three areas:		9
<i>Bio/Cognitive Psychology</i>		
PSY 304	LEARNING: THEORY AND RESEARCH	
PSY 308	SENSATION AND PERCEPTION	
PSY 321	COMPARATIVE ANIMAL BEHAVIOR	
PSY 330	THE PSYCHOLOGICAL POWER OF LANGUAGE	
PSY 333	BRAIN AND BEHAVIOR	
PSY 340	COGNITIVE PSYCHOLOGY	
<i>Social/Developmental Psychology</i>		
PSY 301	PERSPECTIVES ON CHILD ABUSE AND ADVOCACY	
PSY 325	SOCIAL BEHAVIOR	
PSY 327	ADULT DEVELOPMENT AND AGING I	
PSY 355	LIFESPAN DEVELOPMENTAL PSYCHOLOGY	
PSY 356	CHILD DEVELOPMENT	
PSY 357	ADOLESCENT AND YOUNG ADULT DEVELOPMENT	

PSY 370	ENVIRONMENTAL PSYCHOLOGY I	
<i>Clinical/Applied Psychology</i>		
PSY 311	PERSONALITY: THEORY AND RESEARCH	
PSY 365	PSYCHOLOGY IN THE WORKPLACE	
PSY 367	ORGANIZATIONAL BEHAVIOR	
PSY 375	FORENSIC PSYCHOLOGY	
PSY 376	HEALTH PSYCHOLOGY	
PSY 392	ABNORMAL PSYCHOLOGY	
PSY 393	ABNORMAL CHILD PSYCHOLOGY	

Students must complete three additional courses at the 300 or 400-level. At least one of these courses must be at the 400-level. 9

Note: PSY 306 and PSY 450 are highly recommended for students planning to go to graduate school in Psychology or a related field.

**Total Credit Hours** 21

## Public Administration and Nonprofit Management Minor

PUB

### Political Science and Public Administration Department

Classroom Building B218  
(716) 878-6116

The 18 credit-hour Minor in Public Administration and Nonprofit Management (PAD) introduces students from all disciplines to the core elements of public administration and nonprofit management. The minor is designed to prepare students for careers in the nonprofit and government sectors and/or graduate study in public administration and public affairs. Several students who have completed the PAD minor have pursued their MPA at Buffalo State\* or at other universities.

The minor requires three courses focusing specifically on public administration and nonprofit management. The electives offer students an opportunity to either focus on a particular area (e.g. GIS, ethics) or select courses in various disciplines that provide conceptual and hands-on skills for careers in the public and nonprofit sectors.

**Students earning a GPA of 3.0 or above in the minor are guaranteed admission into SUNY Buffalo State's MPA Program.**

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
PAD 101	INTRODUCTION TO PUBLIC ADMINISTRATION AND NONPROFIT MANAGEMENT	3
PAD 307	METROPOLITAN GOVERNANCE	3
PAD 360	PUBLIC ADMINISTRATION	3

<b>Electives (9 credit hours)</b>		<b>9</b>
PAD 347	EVOLUTION AND DEVELOPMENT OF THE NONPROFIT SECTOR	
PAD 348	GRANTS MANAGEMENT AND FUND DEVELOPMENT IN PUBLIC AND NONPROFIT AGENCIES	
PAD 368	COMPARATIVE PUBLIC ADMINISTRATION	
PAD 389	TOPICS IN PUBLIC ADMINISTRATION	
PAD 390	RESEARCH METHODS IN PUBLIC ADMINISTRATION	
PAD 400	INTERNATIONAL PUBLIC MANAGEMENT AND SERVICE	
PAD 401	HUMAN RIGHTS AND HUMANITARIAN POLICY	
PAD 403	NGO MANAGEMENT AND INTERNATIONAL DEVELOPMENT	
PAD 495	SPECIAL PROJECT	
PAD 499	INDEPENDENT STUDY	
CRS 201	FOUNDATIONS OF LEADERSHIP	
ENG 300	WRITING FOR THE PROFESSIONS	
ENG 302	TECHNICAL WRITING	
ENG 409	WRITING GRANTS AND PROPOSALS	
GEG 102	HUMAN GEOGRAPHY	
GEG 309	URBAN GEOGRAPHY	
GEG/PLN 325	MAPS AND MAPMAKING USING GIS	
GEG 416	GEOGRAPHIES OF DEVELOPMENT	
GEG 419	GLOBALIZATION, TECHNOLOGY, COMPETITION, AND SERVICE ECONOMIES	
GEG 425	FUNDAMENTALS OF GIS	
PHI 102	INTRODUCTION TO ETHICS	
PHI 103	INTRODUCTION TO LOGIC	
PHI 301	JUSTICE: LIBERTY VS. EQUALITY	
PHI 310	HISTORY OF ETHICS	
PHI 351	ETHICS BOWL	
PLN 215	INTRODUCTION TO URBAN AND REGIONAL PLANNING	
PLN 315	PRINCIPLES OF URBAN AND REGIONAL PLANNING	
PLN 380	NEIGHBORHOOD PLANNING AND COMMUNITY DEVELOPMENT	

**Total Credit Hours** 18

# Public Relations and Advertising (B.A.)

BA-AS PRA

## Communication Department Bachelor of Arts (HEGIS 0699)

Accrediting Council on Education in Journalism and Mass Communications (Accredited)

Buckham Hall B119  
(716) 878-6008

This major allows students flexibility to tailor a program based on strategic communication through the disciplines of public relations, advertising, social media, and related fields. It meets the needs of students preparing for a career in which research, strategic planning, implementation of creative communication tactics, and evaluation are central, whether to advance an organization, promote a product, or advocate a cause.

Compare this major with communication studies, journalism, and media production. See [communication.buffalostate.edu](http://communication.buffalostate.edu) (<http://communication.buffalostate.edu/>).

This is the only bachelor's degree program in public relations and advertising at any SUNY college that is accredited by the Accrediting Council on Education in Journalism and Mass Communications. Only a handful of other undergraduate programs in New York State are accredited.

### Career Opportunities

Students in public relations and advertising prepare for careers in public relations, social media and advertising, as well as fundraising, organizational communication, research, lobbying, marketing communication, and other fields that require a liberal arts education enhanced with communication expertise.

The profile of a successful public relations and advertising graduate is a person with strong writing and speaking proficiency, keen ethical insight, competence in research and planning, and skill in working effectively both independently and in teams.

### Academic Standards

Only grades of C or higher may be applied toward requirements for any communication degree; courses with lower grades must be repeated. Consistent with standards of the Accrediting Council on Education in Journalism and Mass Communications, the number of communication courses that students may take is capped, encouraging a broad-based liberal arts education. The department encourages students to take minors or second majors and requires evidence of an academic concentration or area of expertise outside the Communication Department.

### Admission Requirements

Incoming freshmen and transfer students can declare the major.

See [communication.buffalostate.edu](http://communication.buffalostate.edu) (<http://communication.buffalostate.edu/>) for application forms and additional information, including a list of equivalent core courses at community colleges. Transfer students from two-

year schools may apply only core courses toward this major for a maximum of 12 credits. Students generally require four semesters of study after completing communication core courses.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Public Relations &amp; Advertising Major Requirements (42 credit hours)</b>		
<i>Communication Core (12 credit hours)</i>		
COM 100	MEDIA LITERACY	3
COM 210	INTRODUCTION TO MEDIA WRITING	3
COM 215	INTRODUCTION TO VISUAL COMMUNICATION	3
SPC 205	INTRODUCTION TO ORAL COMMUNICATION	3
<i>Major Requirements (21 credit hours)</i>		
COM 301	PRINCIPLES OF PUBLIC RELATIONS AND ADVERTISING	3
SPC 307	GROUP COMMUNICATON	3
COM 308	PUBLIC RELATIONS WRITING	3
COM 322	COMMUNICATION GRAPHICS	3
COM 336	WEB AND SOCIAL MEDIA PRODUCTION	3
COM 401	APPLIED COMMUNICATION RESEARCH	3
COM 418	CAMPAIGNS IN PUBLIC RELATIONS AND ADVERTISING	3
<i>Senior Seminar (3 credit hours)</i>		
COM 450	COMMUNICATION AND SOCIETY	3
<i>Communication Electives (6 credit hours)</i>		
Select any two 300 or 400 level COM or SPC electives by advisement		6
<b>All College Electives</b>		
39-45 credit hours		39-45
<b>Total Credit Hours</b>		<b>120</b>

## Quality Minor

QUA

### Engineering Technology Department

Technology Building 126  
(716) 878-6017  
[engineeringtechnology.buffalostate.edu](http://engineeringtechnology.buffalostate.edu) (<https://engineeringtechnology.buffalostate.edu/>)

Available to all Non-Industrial Technology majors.

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (15 credit hours)</b>		
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS	3
or MAT 382	MATHEMATICAL STATISTICS	
TEC 313	STATISTICAL QUALITY CONTROL	3
TEC 200	TOTAL QUALITY MANAGEMENT	3
SPC 307	GROUP COMMUNICATON	3
TEC 488	QUALITY INTERNSHIP	3
<b>Electives (3 credit hours)</b>		
Select one of the following:		3
TEC 311	MATERIALS SCIENCE AND TESTING	
TEC 321	MEASUREMENT SYSTEMS	
TEC 323	QUALITY IMPROVEMENT THROUGH DESIGN OF EXPERIMENTS	
<b>Total Credit Hours</b>		<b>18</b>

## Religious Studies Minor

REL

### Philosophy Department

Buckham B221  
(716) 878-5136

A minor in religious studies deepens students' understanding of the various religious traditions and their own religious beliefs and values.

## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (15 credit hours)</b>		
PHI 324	ZEN BUDDHISM	3
PHI 335	GOD AND RELIGION	3
REL 104	INTRODUCTION TO RELIGIOUS STUDIES	3
REL 321	WORLD RELIGIONS	3
REL 360	WESTERN MONOTHEISM	3
<b>Electives (3 credit hours)</b>		
Select 3 credit hours from the following:		3
ANT 381	RELIGION, MAGIC, AND CULTURE	
ENG 130	BIBLICAL AND CLASSICAL LITERATURE	
ENG 330	LITERATURE OF THE BIBLE	
FAR 250	ART HISTORY I	
FAR 251	ART HISTORY II	
FAR 359	HIGH RENAISSANCE AND MANNERISM	
HIS 313/ PSC 345	POLITICS AND HISTORY OF THE MIDDLE EAST	

HIS 383	HISTORY OF CHRISTIANITY FROM 1500 - PRESENT
HIS 405	REFORMATION
MCL 337	GREEK AND ROMAN MYTHOLOGY
PHI 102	INTRODUCTION TO ETHICS
PHI 204	PHILOSOPHY OF RELIGION
PHI 221	PHILOSOPHY AND YOGA
PHI 310	HISTORY OF ETHICS
REL 105	INTRODUCTION TO CHRISTIAN THOUGHT
REL 107	INTRODUCTION TO ISLAM
REL 121	INTRODUCTION TO JEWISH THOUGHT
REL 205	INTRODUCTION TO THE OLD TESTAMENT
REL 206	INTRODUCTION TO THE NEW TESTAMENT
REL 303	WOMEN IN GLOBAL RELIGIONS
REL 306	WRITINGS OF JOHN
REL 329	CONTEMPORARY CHRISTIAN THOUGHT
REL 332	MYSTICISM
SOC 328	SOCIOLOGY OF RELIGION

**Total Credit Hours** **18**

No student may declare a minor in the same discipline as their major, therefore, a Philosophy major may not declare a philosophy minor.

## Safety Studies Minor

SAF

### Engineering Technology Department

Technology Building 126  
(716) 878-6017  
[engineeringtechnology.buffalostate.edu](https://engineeringtechnology.buffalostate.edu) (<https://engineeringtechnology.buffalostate.edu/>)

The major social problem of our nation in terms of wasted human and national resources is that of accidents and public health and safety as affected by numerous industrial and social processes. Safety Science and Technology is, without a doubt, the principal source of help for humanity in effectively controlling those accidents and processes which result in personal injury or death, property destruction, and degradation of the social and natural environments.

The safety minor is designed to provide the basic preparation needed by individuals for entry into the public and private health and safety professions. Courses available within the minor provide an opportunity for both general and specialized preparation in safety, risk assessment, and public policy to meet a variety of student interests and needs.

All or part of the 18 semester hours of safety course work needed to satisfy the requirements of the minor may be taken from the elective category of the degree requirements for the college major.



## Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
SAF 305	FUNDAMENTALS OF SAFETY	3
SAF 333	OCCUPATIONAL SAFETY	3
SAF 340	COMMUNITY SAFETY	3
<b>Electives (9 credit hours)</b>		
Select three from the following:		9
SAF 310	PERSONAL SAFETY AND FIRST AID	
SAF 320	PRODUCT SAFETY	
SAF 360	INDUSTRIAL HYGIENE	
TEC 402	ERGONOMICS	
TEC 465	SAFETY MANAGEMENT	
TEC 488	QUALITY INTERNSHIP	
<b>Total Credit Hours</b>		<b>18</b>

## Sculpture (B.F.A.)

BFA-AS SCL

### Art and Design Department Bachelor of Fine Arts (HEGIS 1002)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD)  
Accredited

Sculpture majors explore additive, subtractive, and constructive approaches to their craft. Students learn techniques such as modeling, carving, plaster, glass and metal casting, welding, vacuum forming, and woodworking.

Each B.F.A. student will be required to mount an individual exhibition of his or her work. It will be planned and installed with the advice of the student's faculty adviser, but no grade will be assigned.

The Art and Design Department reserves the right to retain student artwork for official purposes, such as exhibits, catalogs, or teaching aids.

### Admission Requirements

High school students applying for admission to the B.F.A. sculpture major need only state his/her intent to major in sculpture to be accepted to the major, assuming required G.P.A. and other college admission standards are met. A portfolio is not required. All students, including transfer students, must undergo a formal portfolio review after completion of FAR 342 (<http://ecatalog.buffalostate.edu/search/?P=FAR%20342>) (Intermediate II) or the equivalent course for a transfer student. The portfolio is to be presented in person or mailed along with a statement of intent as stipulated by the department and should contain examples of work that the candidate believes best display his or her abilities.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class. Students

enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Fine Arts Major Requirements (78 credit hours)</b>		
<i>Required Courses (45 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
FAR/AAD 101	DRAWING I	3
FAR 102	DRAWING II	3
FAR 103	MODELING	3
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
FAR 210	INTRODUCTORY PAINTING	3
FAR 220	INTRODUCTORY PHOTOGRAPHY	3
FAR 230	INTRODUCTORY PRINTMAKING	3
FAR 240	INTRODUCTORY SCULPTURE	3
FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
FAR 363	TWENTIETH-CENTURY ART HISTORY	3
FAR 470	SENIOR SEMINAR IN FINE ARTS	3
Two Art History electives		6
<i>Sculpture (21 credit hours)</i>		
FAR 341	INTERMEDIATE SCULPTURE I	3
FAR 342	INTERMEDIATE SCULPTURE II	3
FAR 343	ADVANCED SCULPTURE	1-9
FAR 440	SENIOR STUDIO IN SCULPTURE	6
<i>Art Electives</i>		
12 credit hours		
<b>All College Electives</b>		
3-9 credit hours		3-9
<b>Total Credit Hours</b>		<b>120</b>

## Sculpture Minor

SCL

### Art and Design Department

Upton Hall 402  
(716) 878-6032

It is often desirable for students in areas such as art education and design to pursue a concentrated, but not all-encompassing, study of an art discipline outside of their major field. This widens the students' perspective, increases their professional and job-related opportunities and enhances qualifications for those planning to pursue a graduate degree, as well as

satisfies other personal interests. Many students do this now but receive no formal recognition of their work. This minor program in sculpture meets the needs of these students and recognizes their efforts and achievements.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (18 credit hours)</b>		
FAR 101	DRAWING I	3
FAR 240	INTRODUCTORY SCULPTURE	3
FAR 341	INTERMEDIATE SCULPTURE I	3
FAR 342	INTERMEDIATE SCULPTURE II	3
FAR 343	ADVANCED SCULPTURE (may be repeated)	3
FAR 345	FIGURE MODELING	3
<b>Total Credit Hours</b>		<b>18</b>

## Social Studies Education (7–12, 5–6 Extension, B.S.)

BS-AS SXX

### History and Social Studies Education Department Bachelor of Science (HEGIS 2201.01)

National Council for Accreditation of Teacher Education (NCATE) Accredited

Classroom Building C205  
(716) 878-5412

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The social studies secondary education program prepares students to meet the educational requirements leading to New York State Initial Certification in Adolescence Education required to teach social studies in grades 7–12, with an extension for middle childhood that qualifies the holder to teach social studies in grades 5–9. The program supplies a knowledge base that provides the background knowledge necessary for teachers to implement the NYS Learning Standards for students in grades 5–12.

### Admission Requirements

Applicants must have a minimum cumulative GPA of 3.0, a minimum GPA of 3.0 in all history and social science courses.

*Prerequisites for Student Teaching:* See prerequisites for SSE 409 (<http://catalog.buffalostate.edu/undergraduate/sse-409.htm>) and SSE 410 (<http://catalog.buffalostate.edu/undergraduate/sse-410.htm>).

A departmental honors program is also available. Students should contact the department for additional information.

The social studies content core constitutes a 42-credit major in social studies that consists of study in economics, government,

and a minimum of 33 credit hours of study in the history and geography of the United States and the world.

All program majors are required to complete a minimum of 150 clock hours of field experience related to coursework prior to student teaching. These field experiences consist of observations, individual tutoring, and the teaching of small groups of students under the supervision of certified teachers. These experiences are an integral component of the pedagogical core courses specified in the previous section, with learning outcomes specified and their achievement evaluated by course instructors.

Students complete a minimum of 30-35 clock hours of field experience in each of three courses: SSE 200 (<http://catalog.buffalostate.edu/undergraduate/sse-200.htm>), SSE 303 (<http://catalog.buffalostate.edu/undergraduate/sse-303.htm>), and SSE 309 (<http://catalog.buffalostate.edu/undergraduate/sse-309.htm>). Another course, SSE/HIS 488 (<http://catalog.buffalostate.edu/undergraduate/his-488.htm>), will be used by students to complete the additional 50 clock hours in field experience required for the grades 5–6 extension. The department has established relationships with several "high-need" urban and suburban school districts where field experiences are held. All majors will have study and experiences that together provide a solid foundation for teaching in high-need schools.

To student teach, students are required to be in the major and have a minimum cumulative GPA of 3.0 and a minimum GPA of 3.0 in the social studies major, as well as obtain a minimum grade of C in SSE 303 (<http://catalog.buffalostate.edu/undergraduate/sse-303.htm>) and SSE 309 (<http://catalog.buffalostate.edu/undergraduate/sse-309.htm>). All majors meeting these requirements must enroll in two practicum courses following successful completion of all other coursework, and satisfaction of English and math competency requirements. Placements for these practica include urban and suburban settings. The urban placements may be in high-need districts that provide opportunities for student teachers to work with students from diverse backgrounds, including socio-economically disadvantaged students, students with disabilities, and students who are English-language learners. Experiences include individual and group instruction, daily and long-view planning, unit teaching, classroom management and routine procedures, use of audiovisual aids, community resources, record-keeping, evaluation procedures, and participation in the total school program.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours <sup>1</sup>		33-39

### Social Sciences Major Requirements (42 credit hours)

<i>History of the Western Hemisphere (15 credit hours)</i>		
HIS 106	HISTORY OF AMERICAN LIFE I	3
HIS 107	HISTORY OF AMERICAN LIFE II	3
HIS 314	MODERN LATIN AMERICA	3
HIS 415	HISTORY AND GOVERNMENT OF NEW YORK STATE	3
Select one from the following:		3

HIS 308	HISTORY OF EARLY CANADA	
HIS 316	HISTORY OF MODERN CANADA	
HIS 326	HISTORY OF THE GREAT LAKES REGION	
<i>History of the Eastern Hemisphere (15 credit hours)</i>		
HIS 230	WORLD CIVILIZATIONS I	3
Two upper-division electives (any Asian, African, or Middle-Eastern world history courses).		
Select two from the following:		
HIS 115	FOUNDATIONS OF WESTERN CIVILIZATION	
HIS 116	EUROPE SINCE 1500	
HIS 117	TWENTIETH-CENTURY EUROPE	
<i>Geography (3 credit hours)</i>		
GEG 300	WORLD REGIONAL GEOGRAPHY	3
<i>Political Science (3 credit hours)</i>		
Select one from the following:		
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS	
PSC 320	U.S. CIVIL LIBERTIES	
<i>Economics (3 credit hours)</i>		
Select one from the following:		
ECO 101	THE ECONOMIC SYSTEM	
ECO 201	PRINCIPLES OF MACROECONOMICS	
ECO 202	PRINCIPLES OF MICROECONOMICS	
<i>Seminar (3 credit hours)</i>		
HIS 300	RESEARCH AND WRITING SEMINAR	3
<b>Professional Education Requirements (30 credit hours)</b>		
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
ENG 309	TEACHING AND EVALUATING WRITING	3
or EDU 417	ADOLESCENT LITERACY	
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	3
or EXE 372	FOUNDATIONS OF TEACHING ADOLESCENTS WITH DISABILITIES	
PSY 357	ADOLESCENT AND YOUNG ADULT DEVELOPMENT	3
SSE 200	INTRODUCTION TO SECONDARY TEACHING	3
SSE 303	METHODS AND MATERIALS IN TEACHING MIDDLE SCHOOL SOCIAL STUDIES	3
SSE 309	METHODS AND MATERIALS IN TEACHING HIGH SCHOOL SOCIAL STUDIES	3

SSE 370	COMPUTER TECHNOLOGY IN THE SOCIAL STUDIES CLASSROOM	3
SSE 402	HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF SOCIAL EDUCATION	3
or SSE/HIS 407	THE TEACHING OF HISTORY	
<b>Field Experience and Student Teaching Requirements (15 credit hours)</b>		
SSE 409	STUDENT TEACHING OF SOCIAL STUDIES IN THE MIDDLE SCHOOL	6
SSE 410	STUDENT TEACHING OF SOCIAL STUDIES IN SENIOR HIGH SCHOOL	6
SSE/HIS 488	INTERNSHIP	3
<b>One Year (or Equivalent) of a Foreign Language (0 credit hours)</b>		
<b>Total Credit Hours</b>		<b>120-126</b>

<sup>1</sup> Program majors should enroll in an introductory psychology course, such as PSY 101, to satisfy their Intellectual Foundations requirements. It is recommended that majors take history courses to meet their civilizations requirements.

## Social Studies Education (7–12, 5–6 Extension, PTCP)

UG-PBC-AS SSX

### History and Social Studies Education Department Postbaccalaureate Teacher Certification Program (HEGIS 2201.1)

Council for the Accreditation of Educator Preparation (CAEP) Accredited  
Classroom Building C205  
(716) 878-5412  
[history.buffalostate.edu/](http://history.buffalostate.edu/) (<http://history.buffalostate.edu/>)

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs (<http://ecatalog.buffalostate.edu/graduate/admission-graduate-program/admission-all-education-programs/>)" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The social studies education (7–12; 5–6 extension) postbaccalaureate certification-only program prepares persons with existing undergraduate degrees who have a history or social science major to meet the disciplinary content and educational requirements leading to New York State's Initial Certificate in adolescence education required to teach social studies in grades 5–12. The program supplies the background knowledge necessary for teachers to implement the NYS Social Studies Framework for social studies in grades 5–12. It also meets the standards set by national professional organizations such as the Council for the Accreditation Educator Preparation (CAEP).

In addition to academic requirements, students who are enrolled in teacher education programs leading to Initial Certification or Initial/Professional certification are required to complete all seminars specifically required by New York State for program completion and graduation, including School Violence Prevention and Intervention (SAVE); Identification and Reporting of Child Abuse and Maltreatment; Alcohol and Other Drug Avoidance; Fire and Arson Safety; HIV and the Classroom; and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training). These seminar requirements are subject to change.

### Admission Requirements

Applicants must have an existing undergraduate degree with a 36-credit concentration in history and/or social science courses, as well as a minimum 3.0 cumulative GPA; a minimum 3.0 GPA in all history and social sciences courses.

Students complete a minimum of 30–35 clock hours of field experience in each of three courses: SSE 200, SSE 303, and SSE 309. Another course, SSE 488/HIS 488, will be used by students to complete the additional 50 clock hours in field experience required for the 5-6 extension. The department has established relationships with several high-need urban and suburban school districts where field experiences are held. All majors will have study and experiences that together provide a solid foundation for teaching in high-need schools.

### Program Requirements

Code	Title	Credit Hours
<b>History of the Western Hemisphere (15 credit hours)</b>		
HIS 106	HISTORY OF AMERICAN LIFE I	3
HIS 107	HISTORY OF AMERICAN LIFE II	3
HIS 314	MODERN LATIN AMERICA	3
HIS 415	HISTORY AND GOVERNMENT OF NEW YORK STATE	3
Select one of the following:		3
HIS 308	HISTORY OF EARLY CANADA	
HIS 316	HISTORY OF MODERN CANADA	
HIS 326	HISTORY OF THE GREAT LAKES REGION	
<b>History of the Eastern Hemisphere (9 credit hours)</b>		
HIS 230	WORLD CIVILIZATIONS I	3
Select two from the following:		6
HIS 115	FOUNDATIONS OF WESTERN CIVILIZATION	
HIS 116	EUROPE SINCE 1500	
HIS 117	TWENTIETH-CENTURY EUROPE	
<b>Geography (6 credit hours)</b>		
GEG 300	WORLD REGIONAL GEOGRAPHY	3
Select one from the following:		3
GEG 102	HUMAN GEOGRAPHY	
GEG 206	GEOGRAPHY OF NEW YORK STATE	

GEG 309	URBAN GEOGRAPHY	
GEG 360	GEOGRAPHY OF ASIA	
GEG 362	GEOGRAPHY OF THE UNITED STATES AND CANADA	
GEG 364	GEOGRAPHY OF EUROPE	
<b>Political Science (3 credit hours)</b>		
Select one from the following:		3
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS	
PSC 320	U.S. CIVIL LIBERTIES	
<b>Economics (3 credit hours)</b>		
Select one from the following:		3
ECO 101	THE ECONOMIC SYSTEM	
ECO 201	PRINCIPLES OF MACROECONOMICS	
ECO 202	PRINCIPLES OF MICROECONOMICS	
<b>Cultural Diversity (3 credit hours)</b>		
SSE/HIS 363	AMERICAN IDENTITY IN TRANSITION: DIVERSITY AND PLURALISM IN THE UNITED STATES	3
<b>History/Social Science Electives (11 credit hours)</b>		
Select 11 credit hours		11
<b>Professional Education Requirements (30 credit hours)</b>		
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
ENG 309	TEACHING AND EVALUATING WRITING	3
or EDU 417	ADOLESCENT LITERACY	
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	3
PSY 357	ADOLESCENT AND YOUNG ADULT DEVELOPMENT	3
SSE 200	INTRODUCTION TO SECONDARY TEACHING	3
SSE 303	METHODS AND MATERIALS IN TEACHING MIDDLE SCHOOL SOCIAL STUDIES	3
SSE 309	METHODS AND MATERIALS IN TEACHING HIGH SCHOOL SOCIAL STUDIES	3
SSE 370	COMPUTER TECHNOLOGY IN THE SOCIAL STUDIES CLASSROOM	3
SSE 402	HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF SOCIAL EDUCATION	3
or SSE/HIS 407	THE TEACHING OF HISTORY	
<b>Student Teaching Requirements (15 credit hours)</b>		

To complete the program, a student must be in the major and have achieved a cumulative GPA of 3.0 or higher and a minimum 3.0 GPA in the major.		
SSE 409	STUDENT TEACHING OF SOCIAL STUDIES IN THE MIDDLE SCHOOL	6
SSE 410	STUDENT TEACHING OF SOCIAL STUDIES IN SENIOR HIGH SCHOOL	6
SSE/HIS 488	INTERNSHIP	1-12
<b>Total Credit Hours</b>		<b>95</b>

## Social Studies Education (7–12, B.S.)

BS-AS SSS

### History and Social Studies Education Department Bachelor of Science (HEGIS 2201.01)

National Council for Accreditation of Teacher Education (NCATE) Accredited

Classroom Building C205  
(716) 878-5412

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The social studies B.S. degree program in secondary education prepares students to meet the educational requirements leading to New York State Initial Certification in Adolescence Education required to teach social studies in grades 7–12. The program supplies a knowledge base that provides the background knowledge necessary for teachers to implement the NYS Social Studies Framework for students in grades 7–12.

### Prerequisites for Student Teaching

See prerequisites for SSE 409 and SSE 410.

A departmental honors program is also available. Students should contact the department for additional information.

The social studies content core constitutes a 42-credit major in social studies that consists of study in economics, government, and a minimum of 30 credit hours of study in the history and geography of the United States and the world (see total required credit hours in social studies, below). All program majors are required to complete a minimum of 100 clock hours of field experience related to coursework prior to student teaching. These field experiences consist of observations, individual tutoring, and the teaching of small groups of students under the supervision of certified teachers. These experiences are an integral component of the pedagogical core courses specified in the previous section, with learning outcomes specified and their achievement evaluated by course instructors.

Students complete a minimum of 30–35 clock hours of field experience in each of three courses: SSE 200, SSE 303, and SSE 309. Another course, SSE 488/HIS 488, is available and

will be used by transfer students and others who may have a deficiency in field experience. The department has established relationships with several "high-need" urban and suburban school districts where field experiences are held. All majors will have study and experiences that together provide a solid foundation for teaching in high-need schools.

To student teach, students are required to have a minimum cumulative GPA of 2.75 and a minimum GPA of 2.75 in the social studies major, as well as obtain a minimum grade of C in SSE 303 and SSE 309. All majors meeting these requirements must enroll in two practicum courses following completion of all other coursework and satisfaction of English and math competency requirements. Placements for these practica include urban and suburban settings. The urban placements may be in high-need districts that provide opportunities for student teachers to work with students from diverse backgrounds, including socio-economically disadvantaged students, students with disabilities, and students who are English-language learners. Experiences include individual and group instruction, daily and long-view planning, unit teaching, classroom management and routine procedures, use of audiovisual aids, community resources, record-keeping, evaluation procedures, and participation in the total school program.

### Admission Requirements

Applicants must have a minimum cumulative GPA of 3.0.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours <sup>1</sup>		33-39
<b>Social Sciences Major Requirements (42 credit hours)</b>		
<i>History of the Western Hemisphere (12 credit hours)</i>		
Basic U.S. History		
HIS 106	HISTORY OF AMERICAN LIFE I	3
HIS 107	HISTORY OF AMERICAN LIFE II	3
HIS 415	HISTORY AND GOVERNMENT OF NEW YORK STATE	3
Upper-division elective (any U.S., Canadian, or Latin American history course)		3
<i>History of the Eastern Hemisphere (12 credit hours)</i>		
HIS 230	WORLD CIVILIZATIONS I	3
One World History elective (any Asian, African, or Middle Eastern world history course)		3
Select two from the following:		6
HIS 115	FOUNDATIONS OF WESTERN CIVILIZATION	
HIS 116	EUROPE SINCE 1500	
HIS 117	TWENTIETH-CENTURY EUROPE	
<i>Geography (6 credit hours)</i>		
GEG 300	WORLD REGIONAL GEOGRAPHY	3
Select one from the following:		3
GEG 102	HUMAN GEOGRAPHY	
GEG 206	GEOGRAPHY OF NEW YORK STATE	

GEG 309	URBAN GEOGRAPHY	
GEG 360	GEOGRAPHY OF ASIA	
GEG 362	GEOGRAPHY OF THE UNITED STATES AND CANADA	
GEG 364	GEOGRAPHY OF EUROPE	
<i>Political Science (3 credit hours)</i>		
Select one from the following: 3		
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS	
PSC 320	U.S. CIVIL LIBERTIES	
<i>Economics (3 credit hours)</i>		
Select one from the following: 3		
ECO 101	THE ECONOMIC SYSTEM	
ECO 201	PRINCIPLES OF MACROECONOMICS	
ECO 202	PRINCIPLES OF MICROECONOMICS	
<i>Upper-Division Social Science Elective</i>		
3 credit hours 3		
<i>Seminar (3 credit hours)</i>		
HIS 300	RESEARCH AND WRITING SEMINAR	3
<b>Professional Education Requirements (30 credit hours)</b>		
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
ENG 309	TEACHING AND EVALUATING WRITING	3
or EDU 417	ADOLESCENT LITERACY	
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	3
or EXE 372	FOUNDATIONS OF TEACHING ADOLESCENTS WITH DISABILITIES	
PSY 357	ADOLESCENT AND YOUNG ADULT DEVELOPMENT	3
SSE 200	INTRODUCTION TO SECONDARY TEACHING	3
SSE 303	METHODS AND MATERIALS IN TEACHING MIDDLE SCHOOL SOCIAL STUDIES	3
SSE 309	METHODS AND MATERIALS IN TEACHING HIGH SCHOOL SOCIAL STUDIES	3
SSE 370	COMPUTER TECHNOLOGY IN THE SOCIAL STUDIES CLASSROOM	3
SSE 402	HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF SOCIAL EDUCATION	3
or SSE/HIS 407	THE TEACHING OF HISTORY	

**Student Teaching Requirements (12 credit hours)**

SSE 409	STUDENT TEACHING OF SOCIAL STUDIES IN THE MIDDLE SCHOOL	6
SSE 410	STUDENT TEACHING OF SOCIAL STUDIES IN SENIOR HIGH SCHOOL	6

**One Year (or Equivalent) of a Foreign Language (0-3 credit hours)**

<b>Total Credit Hours</b>	<b>120</b>
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<sup>1</sup> Program majors should enroll in an introductory psychology course, such as PSY 101 (<http://catalog.buffalostate.edu/undergraduate/psy-101.htm>), to satisfy their Intellectual Foundation requirements. It is recommended that majors take history courses to meet their Foundations of Civilizations requirements.

## Social Studies Education (7–12, PTCP)

UG-PBC-AS SSX

**History and Social Studies Education Department  
Postbaccalaureate Teacher Certification Program (HEGIS 2201.01)**

Council for the Accreditation of Educator Preparation (CAEP) Accredited  
Classroom Building C205  
(716) 878-5412  
[history.buffalostate.edu/](http://history.buffalostate.edu/) (<http://history.buffalostate.edu/>)

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs (<http://ecatalog.buffalostate.edu/graduate/admission-graduate-program/admission-all-education-programs/>)" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The social studies education (7–12) postbaccalaureate certification-only program prepares persons with undergraduate degrees in history or social science, or with a 36-credit concentration in history and/or social science courses, to meet the disciplinary content and educational requirements leading to New York's Initial Certificate in adolescence education required to teach social studies in grades 5–12. The program supplies the background knowledge necessary for teachers to implement the NYS Social Studies Framework for social studies in grades 7–12. It also meets the standards set by national professional organizations such as the National Council for the Social Studies and the Council for the Accreditation of Educator Preparation (CAEP).

In addition to academic requirements, students who are enrolled in teacher education programs leading to Initial Certification or Initial/Professional certification are required to complete all seminars specifically required by New York State for program completion and graduation, including School Violence Prevention and Intervention (SAVE); Identification and Reporting of Child Abuse and Maltreatment; Alcohol and Other Drug Avoidance; Fire and Arson Safety; HIV and the Classroom; and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention

(DASA Training). These seminar requirements are subject to change.

### Admission Requirements

Applicants must have an existing undergraduate degree with a 36-credit concentration in history and/or social science courses, as well as a minimum 3.0 cumulative GPA; a minimum 3.0 GPA in all history and social science courses.

Students complete a minimum of 30–35 clock hours of field experience in each of three courses: SSE 200 (<http://catalog.buffalostate.edu/undergraduate/sse-200.htm>), SSE 303 (<http://catalog.buffalostate.edu/undergraduate/sse-303.htm>), and SSE 309 (<http://catalog.buffalostate.edu/undergraduate/sse-309.htm>). The department has established relationships with several high-need urban and suburban school districts where field experiences are held. All majors will have study and experiences that together provide a solid foundation for teaching in high-need schools.

The program of study must include economics, government, and a minimum of 30 semester hours of study in the history and geography of the United States and the world. All students' history/social science coursework must include the following or the equivalent of the following:

### Program Requirements

Code	Title	Credit Hours
<b>Basic History (9 credit hours)</b>		
HIS 106	HISTORY OF AMERICAN LIFE I	3
HIS 107	HISTORY OF AMERICAN LIFE II	3
HIS 415	HISTORY AND GOVERNMENT OF NEW YORK STATE	3
<b>Basic World History (9 credit hours)</b>		
HIS 230	WORLD CIVILIZATIONS I	3
Select two from the following:		6
HIS 115	FOUNDATIONS OF WESTERN CIVILIZATION	
HIS 116	EUROPE SINCE 1500	
HIS 117	TWENTIETH-CENTURY EUROPE	
<b>Other World History (6 credit hours)</b>		
Two Asian, Middle-Eastern, or African History courses		6
<b>Geography (6 credit hours)</b>		
GEG 300	WORLD REGIONAL GEOGRAPHY	3
Select one from the following:		3
GEG 102	HUMAN GEOGRAPHY	
GEG 206	GEOGRAPHY OF NEW YORK STATE	
GEG 309	URBAN GEOGRAPHY	
GEG 360	GEOGRAPHY OF ASIA	
GEG 362	GEOGRAPHY OF THE UNITED STATES AND CANADA	
GEG 364	GEOGRAPHY OF EUROPE	
<b>Political Science (3 credit hours)</b>		
Select one from the following:		3
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS	

PSC 320	U.S. CIVIL LIBERTIES	
<b>Economics (3 credit hours)</b>		
Select one from the following:		3
ECO 101	THE ECONOMIC SYSTEM	
ECO 201	PRINCIPLES OF MACROECONOMICS	
ECO 202	PRINCIPLES OF MICROECONOMICS	
<b>Cultural Diversity (3 credit hours)</b>		
SSE/HIS 363	AMERICAN IDENTITY IN TRANSITION: DIVERSITY AND PLURALISM IN THE UNITED STATES	3
<b>History/Social Science Electives (11 credit hours)</b>		
<b>Professional Education Requirements (30 credit hours)</b>		
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
ENG 309	TEACHING AND EVALUATING WRITING	3
or EDU 417	ADOLESCENT LITERACY	
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	3
or EXE 372	FOUNDATIONS OF TEACHING ADOLESCENTS WITH DISABILITIES	
PSY 357	ADOLESCENT AND YOUNG ADULT DEVELOPMENT	3
SSE 200	INTRODUCTION TO SECONDARY TEACHING	3
SSE 303	METHODS AND MATERIALS IN TEACHING MIDDLE SCHOOL SOCIAL STUDIES	3
SSE 309	METHODS AND MATERIALS IN TEACHING HIGH SCHOOL SOCIAL STUDIES	3
SSE 370	COMPUTER TECHNOLOGY IN THE SOCIAL STUDIES CLASSROOM	3
SSE 402	HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF SOCIAL EDUCATION	3
or SSE/HIS 407	THE TEACHING OF HISTORY	
<b>Student Teaching Requirements (12 credit hours)</b>		
To student teach, a student must have achieved a cumulative GPA of 3.0 or higher and a minimum 3.0 GPA in the social studies major, as well as obtain a grade of C or higher in SSE 303 and SSE 309.		
SSE 409	STUDENT TEACHING OF SOCIAL STUDIES IN THE MIDDLE SCHOOL	6

SSE 410	STUDENT TEACHING OF SOCIAL STUDIES IN SENIOR HIGH SCHOOL	6
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## Social Welfare Minor

SOW

### Social Work Department

Caudell Hall 354  
(716) 878-5705

The academic portion examines the historical socio-cultural significance of citizenship, poverty, social welfare, diversity, and market economies and develops skills to solve local and global problems. The student is also involved in community service in which he/she gains a comprehensive hands-on understanding of the roles of individuals and institutions in developing and sustaining social outcomes. The minor curriculum serves to enhance the student's preparation for careers in the government, non-profits, law, politics, health, and social planning. Social Welfare minors will not be able to practice as social workers.

Acceptance Criteria: CWP 102 and a minimum GPA of 2.5.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
SWK 220	INTRODUCTION TO SOCIAL WORK	3
SWK 301	POVERTY AND PUBLIC POLICY	3
PSC 102	INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS	3
<b>Electives (9 credit hours)</b>		
Select three from the following:		9
SOC 312	WOMEN IN SOCIETY	
SOC/AAS 321	THE AFRICAN AMERICAN FAMILY	
SOC 350	POWER, CLASS, AND INEQUALITY	
SOC 351	SOCIOLOGY OF RACE AND ETHNICITY	
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	
HIS 363	AMERICAN IDENTITY IN TRANSITION: DIVERSITY AND PLURALISM IN THE UNITED STATES	
PSC 375	RACE, SEX, AND POLITICS OF MYTH AND STORY	
<b>Total Credit Hours</b>		<b>18</b>

A minor may include no more than half of its credit hours at the lower-division level.

The minor will accept a maximum of three courses of transfer credit.

## Social Work (B.S.)

*Evening courses are available. Evening and weekend field practicum is available on an extremely limited basis.*

*The Social Work program is designed to begin in the fall semester. The program may accept a student in the spring or summer semester.*

BS-SP SWK

### Social Work Department Bachelor of Science (HEGIS 2104)

Council on Social Work Education Accredited

Caudell Hall 354  
(716) 878-5705

The social work program prepares students for social work practice at the first professional level. Consistent with accreditation standards, the social work courses cover the following areas: human behavior and the social environment, social welfare policy and services, intervention methods, research, values and ethics, diversity, social and economic justice, populations at risk, and field instruction.

Social work is an upper-division major that builds on a liberal arts base. Academic evaluation includes GPA, class performance, and conduct that is ethical and professional. Interested students should contact the department for specific information on these academic standards.

### Admission Requirements

At the time of application, students are required to have:

- Completed 45 credit hours
- Attained a minimum GPA of 2.5.
- Successfully completed the SUNY Buffalo State required college Writing (CWP 101/CWP 102 with a "C" or better).
- Human Biology (BIO 101).
- PSY – Any 3 credit hour Psychology course **or** SPF 302 – Educational Psychology: Elementary Education **or** AP Psychology from high school.
- SOC – Any 3 credit hour Sociology course.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Social Work Major Requirements (51 credit hours)</b>		
SWK 220	INTRODUCTION TO SOCIAL WORK	3
SWK 301	POVERTY AND PUBLIC POLICY	3
SWK 307	HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I	3
SWK 308	HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II	3
SWK 317	RESEARCH METHODS IN SOCIAL WORK	3
SWK 320	SOCIAL SERVICES ORGANIZATIONS	3



SWK 419	SOCIAL WELFARE POLICY	3
SWK 422	ASSESSMENT AND ENGAGEMENT	3
SWK 423	INTERVENTION METHODS	3
SWK 424	GROUPS	3
SWK 429	POLICY PRACTICE	3
SWK 493	FIELD PRACTICUM I	12
& SWK 494	and FIELD PRACTICUM II	
SWK 496	INTEGRATIVE SEMINAR I	3
SWK 497	INTEGRATIVE SEMINAR II	3
<b>All College Electives</b>		
30-36 credit hours		30-36
<b>Total Credit Hours</b>		<b>120</b>

## Sociology (B.A.)

BA-AS SOC

### Sociology Department Bachelor of Arts (HEGIS 2208)

Classroom Building B307  
(716) 878-5411

The B.A. degree in sociology presents a general program to prepare students for a wide variety of positions in business, industry, government, health-related services, or social services. It is also designed to prepare undergraduate students for graduate work in the study of sociology, law, public administration, media studies, demography, crime/deviance, or other social science disciplines. Its emphasis upon scholarly research culminates in Seminar in Sociology (SOC 490). The freedom of choice in selection of courses permits students to develop a particular specialty within sociology, either to meet special career interests or to meet graduate program requirements.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
30-33 credit hours		30-33

### Sociology Major Requirements (42 credit hours)

#### Required Courses (21 credit hours)

Code	Title	Credit Hours
SOC 100	INTRODUCTION TO SOCIOLOGY	3
SOC 204	CLASSICAL SOCIOLOGICAL THEORY	3
SOC 299	SOCIAL STATISTICS	3
SOC 300	METHODS IN SOCIAL RESEARCH	3
or SOC 302	QUALITATIVE METHODS	
SOC 330	SOCIAL PSYCHOLOGY	3
SOC 408	CONTEMPORARY SOCIOLOGICAL THEORY	3
SOC 490	SEMINAR IN SOCIOLOGY	3

#### Sociology Electives (21 credit hours)

At least seven additional courses in sociology. 21  
Students may, in consultation with their adviser, use these electives to develop a specialty cluster.

<b>All College Electives</b>	
45-48 credit hours	45-48
<b>Total Credit Hours</b>	<b>120</b>

## Sociology Minor

SOC

### Sociology Department

Classroom Building B307  
(716) 878-5411

The Minor in Sociology Program introduces students to the basic coursework and concepts in the discipline. By requiring an introductory course and emphasizing sociological theory, the program provides a structured introduction and the freedom to select three elective courses.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
SOC 100	INTRODUCTION TO SOCIOLOGY	3
SOC 204	CLASSICAL SOCIOLOGICAL THEORY	3
SOC 330	SOCIAL PSYCHOLOGY	3
or SOC 350	POWER, CLASS, AND INEQUALITY	
<b>Electives (9 credit hours)</b>		
May be fulfilled by any SOC courses not already taken		9
<b>Total Credit Hours</b>		<b>18</b>

## Spanish (B.A.)

BA-AS SPA

### Modern and Classical Languages Department Bachelor of Arts (HEGIS 1105)

Buckham B234  
(716) 878-5414

This program develops the ability to communicate in Spanish and introduces students to the masterpieces of the literature of Spanish-speaking countries and the most significant aspects of Hispanic culture. Students are encouraged to study in Spain or Latin America in an approved program.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39

### Spanish Major Requirements (36 credit hours)

#### Required Courses (27 credit hours)

Code	Title	Credit Hours
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
SPA 301	INTRODUCTION TO HISPANIC CULTURES	3

SPA 302	INTRODUCTION TO HISPANIC MEDIA	3
SPA 303	INTRODUCTION TO READING HISPANIC LITERATURE	3
SPA 306	CIVILIZATION AND CULTURES OF SPAIN	3
SPA 309	CULTURE AND CIVILIZATION OF LATIN AMERICA	3
SPA 321	ISSUES AND THEMES IN CONTEMPORARY HISPANIC CULTURES	3
Select one from the following		3
SPA 307	SPANISH AUTHORS PRE-1800	
SPA 308	SPANISH AUTHORS 1800-PRESENT	
SPA 310	SPANISH AMERICAN AUTHORS: 1492 TO 1810	
SPA 311	SPANISH AMERICAN AUTHORS 1810S-PRESENT	
Electives		12
SPA 203	PROFESSIONAL SPANISH I	
SPA 204	PROFESSIONAL SPANISH II	
SPA 206	SPANISH FOR EDUCATION PROFESSIONALS II	
INE 390	STUDY ABROAD (INTERNATIONAL EDUCATION)	
SPA 305	SPANISH PHONETICS	
SPA 307	SPANISH AUTHORS PRE-1800	
SPA 308	SPANISH AUTHORS 1800-PRESENT	
SPA 310	SPANISH AMERICAN AUTHORS: 1492 TO 1810	
SPA 311	SPANISH AMERICAN AUTHORS 1810S-PRESENT	
SPA 317	BUSINESS SPANISH	
SPA 389	TOPICS COURSE	
SPA 401	SPANISH FOR SPANISH TEACHING	
SPA 402	SPANISH DRAMA OF THE GOLDEN AGE	
SPA 404	CERVANTES	
SPA 408	TWENTIETH-CENTURY SPANISH LITERATURE	
SPA 410	LITERACY FOR SPANISH TEACHERS	
SPA 411	SPANISH AMERICAN LITERATURE OF THE NINETEENTH AND TWENTIETH CENTURIES: NOVEL, SHORT STORY, AND ESSAY	
SPA 415	ADVANCED GRAMMAR AND COMPOSITION	
SPA 416	ADVANCED CONVERSATION	
SPA 421	STRUCTURE OF MODERN SPANISH	
SPA 496	SEMINAR I	
SPA 497	SEMINAR II	
SPA 499	INDEPENDENT STUDY	

SPA 307, 308, 310, and 311 may count as electives if not taken for requirement; limit of two 2XX-level electives.

### All College Electives

45-51 credit hours	45-51
<b>Total Credit Hours</b>	<b>120</b>

## Spanish Education (7–12, PTCP)

### Spanish Minor

SPA

#### Modern and Classical Languages

Buckham B234  
(716) 878-5414

Whether you are thinking about an international career or just yearn for a life of travel, a minor in Spanish can prepare you for the world ahead, or signal to employers and graduate schools that you are ready for international opportunities. A minor involves taking six courses, as described below, and can augment your major program.

#### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (6-18 credit hours)<sup>1</sup></b>		
SPA 301	INTRODUCTION TO HISPANIC CULTURES	3
SPA 302	INTRODUCTION TO HISPANIC MEDIA	3
SPA 101	BEGINNING SPANISH I	3
SPA 102	BEGINNING SPANISH II	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
<b>Electives (3-15 credit hours)</b>		
<i>Areas of Advanced Study</i>		
Select 3-15 credit hours from the following		3-15
Language and Linguistics		
SPA 305	SPANISH PHONETICS	
SPA 317	BUSINESS SPANISH	
SPA 415	ADVANCED GRAMMAR AND COMPOSITION	
SPA 416	ADVANCED CONVERSATION	
SPA 421	STRUCTURE OF MODERN SPANISH	
Culture and Civilization		
SPA 306	CIVILIZATION AND CULTURES OF SPAIN	
SPA 309	CULTURE AND CIVILIZATION OF LATIN AMERICA	
Pensinsular Literature		
SPA 307	SPANISH AUTHORS PRE-1800	
SPA 308	SPANISH AUTHORS 1800-PRESENT	

Spanish American Literature

SPA 310	SPANISH AMERICAN AUTHORS: 1492 TO 1810
SPA 311	SPANISH AMERICAN AUTHORS 1810S-PRESENT

**Total Credit Hours 21**

<sup>1</sup> Students who begin with SPA 101 must select one course within any advanced study area.

## Speech Minor

SPE

### Communication

Buckham B119  
(716) 878-6008

The minor involves six courses (18 hours) within the Communication Department. It is designed for students in majors in which oral communication plays an integral role in career success. Students majoring in criminal justice, education, English, and business have found this minor to be particularly useful.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (9 credit hours)</b>		
SPC 103	INTRODUCTION TO HUMAN COMMUNICATION	3
SPC 205	INTRODUCTION TO ORAL COMMUNICATION	3
SPC 306	PUBLIC SPEAKING	3
<b>Electives (9 credit hours)</b>		
Select three from the following:		9
SPC 307	GROUP COMMUNICATON	
SPC 309	PERSUASION AND PROPAGANDA	
SPC 311	INTERCULTURAL COMMUNICATION	
SPC 315	MEDIA PERFORMANCE	
SPC 321	RHETORICAL CRITICISM	
SPC 389	TOPIC COURSE	
SPC 407	ORGANIZATIONAL COMMUNICATION	
SPC 422	MEDIA CRITICISM	
<b>Total Credit Hours</b>		<b>18</b>

A maximum of 9 credits toward this minor may be transferred from other schools.

## Speech-Language Pathology (B.S.)

BS-SP SLP

**Speech-Language Pathology Department  
Bachelor of Science (HEGIS 1220)**

Caudell 316  
(716) 878-4412

The undergraduate program in speech-language pathology prepares students with a strong foundation in normal acquisition of speech, language, and hearing, and provides an introduction to the field of communication sciences and disorders. The undergraduate curriculum provides students with all prerequisite courses needed for graduate study. The master's degree is required for the initial teaching certificate, the license to practice speech-language pathology, and for the Certificate of Clinical Competence (CCC) awarded by the American Speech-Language Hearing Association, <http://www.asha.org>. The master's degree program in speech-language pathology is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language Hearing Association (ASHA).

### Admission Requirements

Students are eligible to apply for admission to the department as freshmen. If transferring into the SLP program as a sophomore or junior, a minimum GPA of 2.0 or better is required for admission.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Speech-Language Pathology Major Requirements (52 credit hours)</b>		
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	3
EXE 245	COMMUNITY SERVICE WITH INDIVIDUALS WITH SPECIAL NEEDS	3
SPF 202	CHILD DEVELOPMENT AND EDUCATION	3
SPF 302	EDUCATIONAL PSYCHOLOGY: ELEMENTARY EDUCATION	3
SLP 205	INTRODUCTION TO SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (recommended elective for freshmen and sophomores)	3
SLP 206	BUILDING SOCIAL CONNECTIONS: COMMUNICATION, LANGUAGE AND CONVERSATION (recommended elective for freshmen and sophomores)	3
SLP 302	CLINICAL PHONETICS	3
SLP 303	LANGUAGE ACQUISITION	3
SLP 304	ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING MECHANISMS	3
SLP 305	COMMUNICATION DISORDERS I	3
SLP 314	AUDIOLOGY	3
SLP 328	AUDIOLOGY LAB	1

SLP 329	LANGUAGE ACQUISITION LAB	1
SLP 401	AURAL REHABILITATION	3
SLP 405	COMMUNICATION DISORDERS II	3
SLP 411	INTRODUCTION TO LANGUAGE DISORDERS IN CHILDREN	3
SLP 412	SPEECH ACOUSTICS AND PERCEPTION	3
SLP 424	SPEECH-LANGUAGE PATHOLOGY PROGRAMS IN SCHOOLS	3
SLP 428	ACOUSTICS LAB	1
SLP 429	CLINICAL ACTIVITY	1

**All College Electives**

35-41 credit hours 35-41

**ASHA Requirements.**

*These may also be used to fulfill Intellectual Foundation requirements:*

3 credits in biological sciences

3 credits in physical sciences (chemistry OR physics for non-majors)

3 credits in statistics

**Total Credit Hours 120**

## Sports Communication Certificate

UGCT-AS SCO

**Communication Department**

Buckham Hall B119  
716-878-6008

The Sports Communication Certificate is a set of courses designed to give students enhanced credentials for careers involving sports-related journalism, public relations, and media production. The certificate provides a competitive edge through a credential evidencing both academic knowledge and applied experience. This knowledge and experience are transferrable from sports to virtually any communication field and are applicable to the multiple platforms of converged communication simultaneously required of media producers in the 21st century: expertise in disseminating content through such as print and broadcast media, internet, social media, audio production, and video production.

**Program Requirements**

Code	Title	Credit Hours
<b>Required: Two Professional Courses in Sports Communication (6 credits)</b>		<b>6</b>

*Choose two from the following:*

COM 390 SPECIAL TOPICS: JOURNALISTIC WRITING

COM 392 PUBLIC RELATIONS IN SPORTS

SPC 426 DOCUMENTARY FILM ANALYSIS

**Required: One Individualized Course (3 credits) 3**

*Choose one from the following:*

COM 488 INTERNSHIP

COM 495 SPECIAL PROJECT

**Required: One Major Course with Option for Sports-Related Content (3 credits) 3**

Contact instructor to ensure that sports-related content is available

*Choose one from the following:*

COM 301 PRINCIPLES OF PUBLIC RELATIONS AND ADVERTISING

COM 308 PUBLIC RELATIONS WRITING

COM 312 BASIC MEDIA PRODUCTION

COM 325 FEATURE WRITING

COM 336 WEB AND SOCIAL MEDIA PRODUCTION

COM 405 ONLINE NEWSROOM

COM 433 ADVANCED TV DOCUMENTARY PRODUCTION

COM 434 ADVANCED VIDEO PRODUCTION PRACTICUM

**Required: One Sports-Themed Course Outside Communication (3 credits) 3**

*Choose one from the following:*

SOC 324/ HPR 319 SOCIOLOGY OF SPORT

BUS 368 SPORTS MANAGEMENT AND MARKETING

**Total Credit Hours 15**

## Technology Education (B.S.)

BS-ED TED

**Career and Technical Education Department  
Bachelor of Science (HEGIS 0839.01)**

National Council for Accreditation of Teacher Education (NCATE) Accredited

Bacon 112  
(716) 878-4717

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

The technology education program prepares students to teach technology and the technological systems utilized in problem solving. The four systems emphasized are construction, manufacturing, communication, and transportation. The program is laboratory oriented, teaching the important role of engineering a product or service through selecting and systemizing knowledge for the solution of a problem. Graduates are recommended for an initial certificate to teach technology education in grades K-12.

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Technology Major Requirements (33 credit hours)</b>		
TEC 101	TECHNICAL DRAWING	3
TED 123	PRINCIPLES OF MANUFACTURING	3
TEC 201	MATERIALS PROCESSING	3
TED 300	CONSTRUCTION SYSTEMS	3
TEC 302	CAD/CAM (COMPUTER AIDED DRAFTING/COMPUTER AIDED MANUFACTURING)	3
TEC 311	MATERIALS SCIENCE AND TESTING	3
TEC 314	ELECTROMECHANICS	3
TEC 319	TECHNOLOGY AND VALUES	3
TED 349	COMMUNICATIONS SYSTEMS	3
TED 361	TRANSPORTATION SYSTEMS	3
<b>Professional Sequence Requirements (27 credit hours)</b>		
CTE 301	FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION	3
CTE 302	CURRICULUM AND EVALUATION IN CAREER AND TECHNICAL EDUCATION	3
CTE 303	INSTRUCTIONAL STRATEGIES IN CAREER AND TECHNICAL EDUCATION	3
CTE 311	CAREER MENTORING	3
CTE 402	ASSESSMENT IN CAREER AND TECHNICAL EDUCATION	3
CTE 404	METHODS OF TEACHING CAREER AND TECHNICAL SUBJECTS	3
CTE 421	CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS	3
TED 450	STUDENT TEACHING IN TECHNOLOGY EDUCATION	6
TED 451	STUDENT TEACHING IN TECHNOLOGY EDUCATION II	6
<b>Required in Other Fields</b>		
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
MAT 124	FUNCTIONS AND MODELING II	3
PHY 107	GENERAL PHYSICS I	4
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
<b>All College Electives</b>		
6-12 credit hours		6-12
<b>Total Credit Hours</b>		<b>120</b>

## Technology Education (PTCP)

UG-PBC-ED TED

### Career and Technical Education Department Postbaccalaureate Teacher Certification Program (HEGIS 0839.01)

National Council for Accreditation of Teacher Education (NCATE) Accredited  
Bacon 122  
(716) 878-4717  
[cte.buffalostate.edu/](http://cte.buffalostate.edu/) (<http://cte.buffalostate.edu/>)

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs (<http://ecatalog.buffalostate.edu/graduate/admission-graduate-program/admission-all-education-programs/>)" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

This program is designed for students who have earned a baccalaureate degree in a technology-related field from an accredited college or university and intend to complete coursework required for New York State certification to teach technology. It generally takes at least three semesters for a person with a degree in engineering or architecture to complete this program.

The professional semester, also known as student teaching, is completed with two seven-week rotations: one in a middle school and one in a high school. Students are assigned to specific schools based on their qualifications; however, each student must complete one rotation in a school with a racially diverse population.

In addition to academic requirements, students who are enrolled in teacher education programs leading to Initial Certification or Initial/Professional certification are required to complete all seminars specifically required by New York State for program completion and graduation, including School Violence Prevention and Intervention (SAVE); Identification and Reporting of Child Abuse and Maltreatment; Alcohol and Other Drug Avoidance; Fire and Arson Safety; HIV and the Classroom; and Harassment, Bullying, Cyberbullying, and Discrimination in Schools: Prevention and Intervention (DASA Training). These seminar requirements are subject to change.

### Admission Requirements

1. A bachelor's degree from an accredited college or university.
2. Completion of 36 credit hours of coursework in technology or a technologically-related area, such as engineering, architecture, engineering technology, electrical technology, or industrial technology.
3. Evidence of coursework or professional experience from among the following areas: biotechnical systems, communication systems, structural systems, production systems, and transportation systems.

## Program Requirements

Code	Title	Credit Hours
<b>Technology Education Requirements (6 credit hours)</b>		
CTE 301	FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION	3
CTE 404	METHODS OF TEACHING CAREER AND TECHNICAL SUBJECTS	3
<b>Other Education Requirements (15 credit hours)</b>		
CTE 302	CURRICULUM AND EVALUATION IN CAREER AND TECHNICAL EDUCATION	3
CTE 402	ASSESSMENT IN CAREER AND TECHNICAL EDUCATION	3
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
CTE 421/ EXE 372	CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS	3
<b>Professional Semesters (12 credit hours)</b>		
TED 450	STUDENT TEACHING IN TECHNOLOGY EDUCATION	6
TED 451	STUDENT TEACHING IN TECHNOLOGY EDUCATION II	6
<b>Total Credit Hours</b>		<b>33</b>

## Other Program Requirements

In addition to the required coursework, students must complete:

1. New York State Certification Exams: LAST, ATS-W, and CST. Registration materials for these exams may be obtained from the Teacher Certification Office, Chase Hall 222.
2. Seminars:
  - a. S.A.V.E. (School Anti-Violence Education) workshop
  - b. Child abuse identification workshops
  - c. Drug and alcohol awareness seminar
  - d. Fire and arson safety seminar

# Television and Film Arts (B.A.)

BA-AS TFA

## Television and Film Arts Bachelor of Arts (HEGIS: 0603)

Buckham B119  
(716) 878-3180

The Television and Film Arts major (TFA) at Buffalo State—an interdepartmental program encompassing the Communication, English, and Theater departments—prepares students for a variety of careers in the entertainment industry.

The goal of the major is to teach the TFA student to hone their vision and storytelling skills, thus facilitating pursuits in such dynamic fields as screenwriting, producing, and directing.

The TFA program recognizes that creative content is paramount in today's age of multi-media and to that end, encourages its students to tell stories across all media. The program is dedicated to excellence in teaching and scholarship, cultural enrichment, and service, providing TFA majors with an appropriate mix of criticism, theory, practical application, and real-life internship opportunities passionately designed to help them succeed.

## Required TFA Courses

This series of courses provides students with the foundational skills needed for success in the TFA major. The lower-division courses emphasize the history of storytelling, writing fundamentals, an understanding of the actor, and basic television/film production. The upper-division courses emphasize film criticism; collaboration across production roles; working independently as an 'auteur'; and writing, producing, directing, and editing professionally produced stories exhibited in a public forum.

In addition to required courses, TFA offers electives in storytelling, producing, directing, and post-production.

## Admission Requirements

Admission to the television and film arts program is very competitive (approximately 15 students admitted each year) and based upon an application, letter of recommendation, and submission of creative work (including screenplays, short stories, and/or videos/films). All submitted materials are reviewed by the Television and Film Arts Advisory Committee.

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>TFA Major Requirements (42 credit hours)</b>		
<i>Required Courses (30 credit hours)</i>		
COM 312	BASIC MEDIA PRODUCTION	3
ENG 305	CREATIVE WRITING: NARRATIVE	3
ENG 402	ADVANCED CREATIVE WRITING: NARRATIVE	3
TFA 201	INTRODUCTION TO TELEVISION AND FILM ARTS	3
TFA 301	TV AND FILM CRITICISM	3
TFA 401	PRODUCING SHORT FILMS I	3
TFA 420	PRODUCING SHORT FILMS II	3
TFA 450	SENIOR PROJECT	3
THA 226	ACTING I	3
THA 350	DIRECTING I	3
<i>Elective Courses (12 credit hours)</i>		
The elective requirement can be satisfied by completing 12 credit hours in any of the courses below.		18
COM 304	WRITING FOR BROADCAST (TV, RADIO, FILM)	

COM 317	MEDIA MANAGEMENT
COM 329	INTERMEDIATE VIDEO PRODUCTION
COM 431	ADVANCED FIELD PRODUCTION
COM 432	ADVANCED POST-PRODUCTION
ENG 205	HISTORY OF CINEMA I
ENG 206	HISTORY OF CINEMA II
ENG 303	LITERATURE IN FILM
ENG 350	TWENTIETH-CENTURY DRAMA I
ENG 351	TWENTIETH-CENTURY DRAMA II
SPC 326	FILM ANALYSIS AND EVALUATION
TFA 350	CINEMATOGRAPHY
TFA 460	ADAPTATION
TFA 470	CAREERS IN TELEVISION
TFA 480	ADVANCED DIRECTING/PRODUCING I
TFA 481	ADVANCED DIRECTING/PRODUCING II
TFA 488	INTERNSHIP
THA 200	VOICE AND MOVEMENT I
THA 325	THE BUSINESS OF PERFORMING ARTS
THA 337	SET DESIGN I

**All College Electives**

39-45 credit hours 39-45

**Total Credit Hours** **120**

## Theater (B.A.)

BA-AS THA

**Theater Department  
Bachelor of Arts (HEGIS 1506)**

National Association of Schools of Theater (Accredited)

Donald Savage Theater Building 222  
(716) 878-6416

The Theater Department introduces students to all aspects of theater and the entertainment industries. The theater season includes both faculty- and student-directed productions presented on campus. These productions are attended by members of both the college and the community. Through advisement, students may focus their studies in the following concentrations: acting, directing/dramaturgy, design/technical, and general study. The department also emphasizes direct application of theater skills beyond the stage in the form of various outreach projects. High standards afford a foundation for careers in professional theater, television, and film. A 19-credit-hour minor program in theater is also available.

## Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Theater Major Requirements (42 credit hours)</b>		
<i>Required Courses (26 credit hours)</i>		
THA 200	VOICE AND MOVEMENT I	3
THA 218	SCRIPT ANALYSIS I: PLAY READING	3
THA 226	ACTING I	3
THA 230	PRACTICUM I: INTRODUCTION TO THEATER TECHNOLOGY	1
THA 231	THEATER PRACTICUM II	1
THA 234	INTRODUCTION TO THEATER DESIGN	3
THA 316	SCRIPT ANALYSIS II	3
THA 318	THEATER HISTORY: BAROQUE TO MODERN	3
THA 330	THEATER PRACTICUM III	1
THA 331	THEATER PRACTICUM IV	1
THA 350	DIRECTING I	3
THA 416	SEMINAR IN THEATER ARTS	1
<i>Electives by Advisement (10 - 16 credit hours)</i>		
THA 106	INTRODUCTION TO THEATER ARTS	
THA 189	TOPICS COURSE	
THA 216	THEATER FUNDAMENTALS	
THA 227	ACTING II: SCENE STUDY	
THA 232	STAGE MANAGEMENT	
THA 235	COSTUME CONSTRUCTION I	
THA 236	DRAFTING FOR THE THEATER	
THA 245	STAGE COMBAT I	
THA 300	VOICE AND MOVEMENT II	
THA 317	THEATRE HISTORY: ANCIENT TO BAROQUE	
THA 325	THE BUSINESS OF PERFORMING ARTS	
THA 327	ACTING III: STYLES	
THA 329	ADVANCED ACTING: SOLO SHOW	
THA 332	PERIOD STYLES AND CULTURE	
THA 333	SCENE PAINTING	
THA 334	COSTUME CONSTRUCTION II	
THA 335	COSTUME DESIGN FOR THEATER	
THA 336	LIGHTING TECHNIQUES	
THA 337	SET DESIGN I	
THA 338	DIGITAL DESIGN MEDIA FOR THEATER	
THA 340	PLAYWRITING	
THA 345	STAGE COMBAT II	
THA 348	VOICE ACTING FOR ANIMATION AND VIDEO GAMES	
THA 359	MUSICAL THEATER I	
THA 370	STAGE MAKEUP	

THA 389	TOPIC COURSE	
THA 400	VOICE AND MOVEMENT III	
THA 418	CREATIVE DRAMATICS	
THA 421	DRAMA FROM THE AFRICAN AMERICAN PERSPECTIVE	
THA 426	ACTING IV: ON CAMERA	
THA 435	COSTUME DESIGN II	
THA 437	SET DESIGN II	
THA 450	DIRECTING II	
THA 459	MUSICAL THEATER II	
THA 470	ENSEMBLE THEATER	
THA 488	INTERNSHIP	
THA 495	SPECIAL PROJECT	
THA 499	INDEPENDENT STUDY	
Interdisciplinary Electives (0-6 credit hours). May be satisfied if student completes 16 credit hours of General Electives in Theater Major		16
DAN 310	DANCE FOR MUSICAL THEATER	
DAN 350	TAP DANCE TECHNIQUE I	
DAN 450	TAP DANCE TECHNIQUE II	
ENG 315	SHAKESPEARE I	
<b>All College Electives</b>		
39-45 credit hours		39-45
<b>Total Credit Hours</b>		<b>120</b>

## Theater Minor

THA

### Theater Department

Savage Building 222  
(716) 878-6416

Often a student enrolled in a major other than theater has great enthusiasm and talent for theater arts. In that case, a minor in theater is an excellent way to augment your education and to document your these aptitudes. Graduate schools and employers will see that you have a talent for theater arts, as well as experience in such areas as collaborative problem solving and project management. The minor requires 19 credits, as described below.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (10 credit hours)</b>		
THA 106	INTRODUCTION TO THEATER ARTS	3
or THA 216	THEATER FUNDAMENTALS	
THA 226	ACTING I	3
THA 317	THEATRE HISTORY: ANCIENT TO BAROQUE	3
or THA 318	THEATER HISTORY: BAROQUE TO MODERN	
THA 230	PRACTICUM I: INTRODUCTION TO THEATER TECHNOLOGY	1
<b>Electives (9 credit hours)</b>		

Select three from the following:		9
THA 200	VOICE AND MOVEMENT I	
THA 218	SCRIPT ANALYSIS I: PLAY READING	
THA 227	ACTING II: SCENE STUDY	
THA 234	INTRODUCTION TO THEATER DESIGN	
THA 235	COSTUME CONSTRUCTION I	
THA 300	VOICE AND MOVEMENT II	
THA 316	SCRIPT ANALYSIS II	
THA 325	THE BUSINESS OF PERFORMING ARTS	
THA 327	ACTING III: STYLES	
THA 329	ADVANCED ACTING: SOLO SHOW	
THA 332	PERIOD STYLES AND CULTURE	
THA 333	SCENE PAINTING	
THA 334	COSTUME CONSTRUCTION II	
THA 335	COSTUME DESIGN FOR THEATER	
THA 336	LIGHTING TECHNIQUES	
THA 337	SET DESIGN I	
THA 338	DIGITAL DESIGN MEDIA FOR THEATER	
THA 340	PLAYWRITING	
THA 350	DIRECTING I	
THA 370	STAGE MAKEUP	
THA 400	VOICE AND MOVEMENT III	
THA 421	DRAMA FROM THE AFRICAN AMERICAN PERSPECTIVE	
THA 426	ACTING IV: ON CAMERA	
THA 435	COSTUME DESIGN II	
THA 437	SET DESIGN II	
THA 450	DIRECTING II	
THA 470	ENSEMBLE THEATER	
<b>Total Credit Hours</b>		<b>19</b>

## Urban and Regional Planning (B.S.)

*Evening study available.*

BS-AS UPR

### Geography and Planning Department Bachelor of Science (HEGIS 2214)

Classroom Building A213  
(716) 878-6216

Planning is a discipline concerned with effective change and development in a positive and beneficial manner. Our department offers the only degree in Urban and Regional Planning in the SUNY system. The program emphasizes technical skills and it is applied in nature - many of the courses are taught by professional planners currently employed by local planning agencies. In particular, our GIS offerings provide students with highly marketable skills.



Upper division classes are small (10-20 students), which facilitates individual attention.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Urban and Regional Planning Major Requirements (39 credit hours)</b>		
<i>Required Courses for both Concentrations (21 credit hours)</i>		
PLN 215	INTRODUCTION TO URBAN AND REGIONAL PLANNING	3
PLN 225	PLANNING METHODS	3
PLN 315	PRINCIPLES OF URBAN AND REGIONAL PLANNING	3
PLN 325	MAPS AND MAPMAKING USING GIS	3
PLN 340	LAND USE PLANNING AND ZONING	3
PLN 401	COMPREHENSIVE PLANNING STRATEGIES	3
PLN 431	PLANNING PRACTICUM	3
<i>Electives Selected by Advisement (18 credit hours)</i>		
Select from the following:		18
PLN/GEG 310	URBAN TRANSPORTATION PLANNING	
PLN 341	HOUSING AND REAL ESTATE	
PLN 350	PLANNING FOR SUSTAINABLE COMMUNITIES	
PLN 360	ENVIRONMENTAL IMPACT ASSESSMENT	
PLN 370	WATER RESOURCE PLANNING	
PLN 380	NEIGHBORHOOD PLANNING AND COMMUNITY DEVELOPMENT	
PLN 390	QUANTITATIVE METHODS IN GEOGRAPHY AND PLANNING	
PLN/GEG 405	URBAN ANALYSIS USING GIS	
PLN 410	SUSTAINABLE TRANSPORTATION PLANNING	
PLN 412	COMMUNITY PLANNING AGENCIES AND ISSUES	
PLN 488	INTERNSHIP	
GEG 305	PRINCIPLES OF ECONOMIC GEOGRAPHY	
GEG 309	URBAN GEOGRAPHY	
GEG 425	FUNDAMENTALS OF GIS	
GEG 428	ENVIRONMENTAL ASSESSMENT AND PLANNING APPLICATIONS IN GIS	
<b>All College Electives</b>		
42-48 credit hours		42-48
<b>Total Credit Hours</b>		<b>120</b>

## Urban and Regional Planning Minor

PLA

### Geography and Planning

Classroom Building A213  
(716) 878-6216

The objective of this minor is to introduce students to the discipline of Urban and Regional Planning and to familiarize them with some of the fundamental approaches to the discipline. It is designed for students who would like to enhance their employment opportunities in a planning or related area, or who desire to pursue graduate training in such an area.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (12 credit hours)</b>		
PLN 215	INTRODUCTION TO URBAN AND REGIONAL PLANNING	3
PLN 315	PRINCIPLES OF URBAN AND REGIONAL PLANNING	3
PLN 325	MAPS AND MAPMAKING USING GIS	3
PLN 401	COMPREHENSIVE PLANNING STRATEGIES	3
<b>Electives Selected by Advisement (9 credit hours)</b>		
Select 9 credit hours from the following:		9
PLN 225	PLANNING METHODS	
PLN 310	URBAN TRANSPORTATION PLANNING	
PLN 340	LAND USE PLANNING AND ZONING	
PLN 341	HOUSING AND REAL ESTATE	
PLN 350	PLANNING FOR SUSTAINABLE COMMUNITIES	
PLN 360	ENVIRONMENTAL IMPACT ASSESSMENT	
PLN 370	WATER RESOURCE PLANNING	
PLN 380	NEIGHBORHOOD PLANNING AND COMMUNITY DEVELOPMENT	
PLN 410	SUSTAINABLE TRANSPORTATION PLANNING	
PLN 412	COMMUNITY PLANNING AGENCIES AND ISSUES	
GEG 309	URBAN GEOGRAPHY	
<b>Total Credit Hours</b>		<b>21</b>

## Urban Civic Education Minor

UCE

Social and Psychological Foundations of Education

The Urban Civic Education Minor is an interdisciplinary program housed in the Department of Social and Psychological Foundations of Education. The minor emphasizes civic agency and is designed to inform the student about public work, public achievement, and community organizing. Students are required to take a total of nineteen (19) credit hours. All minors are required to take SPF 203: Schools and Society, and SPF 366: Cultural Proficiency and Public Achievement. The minor encourages active participation through service learning and Public Achievement models and reflection in the processes of social, political, and personal change.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (7 credit hours)</b>		
SPF 203	SCHOOL AND SOCIETY	3
SPF/SOC 366	CULTURAL PROFICIENCY AND PUBLIC ACHIEVEMENT	4
<b>Electives (12 credit hours)</b>		
Select four from the following:		12
AAS 425	RACE, ETHNICITY, AND THE ADMINISTRATION OF JUSTICE	
CRS 303	CREATIVE LEADERSHIP THROUGH EFFECTIVE FACILITATION	
EXE 245	COMMUNITY SERVICE WITH INDIVIDUALS WITH SPECIAL NEEDS	
HIS 341	AFRICAN AMERICANS AND CIVIL RIGHTS	
PHI 334	PHILOSOPHY OF SOCIAL SCIENCES	
PSC 311	INTEREST GROUPS	
PSC 316	URBAN ETHNIC POLITICS	
PSC 318	DEMOCRACY AND PEACE: PRINCIPLES AND PRACTICES IN THE URBAN EXPERIENCE	
SOC 100	INTRODUCTION TO SOCIOLOGY	
SOC 351	SOCIOLOGY OF RACE AND ETHNICITY	
SOC 322	SOCIOLOGY OF CHILDHOOD AND YOUTH	
SWK 301	POVERTY AND PUBLIC POLICY	
<b>Total Credit Hours</b>		<b>19</b>

Entry to Minor: 2.00 GPA

Transfer Credit: A maximum of 6 upper division credits are accepted toward fulfillment of the minor.

Additional Notes: Students may not take more than two lower level courses.

## Women and Gender Studies Minor

WGS

### Women and Gender Studies Interdisciplinary Unit

Classroom Building B328  
(716) 878-4591

Women and Gender Studies is an interdisciplinary field that examines women's experiences, as well as gender and sexuality. Women and Gender Studies examines a range of issues, including how gender influences women and men's lives and experiences in society and politics; the portrayal of women and men in arts, literature, and media; sociocultural and biological influences on gender development; how gender influences thoughts and behavior; how gender intersects with other forms of diversity, such as race, class, and culture; the nature of sexuality; and feminist theory and scholarship.

### Program Requirements

Code	Title	Credit Hours
<b>Required Courses (3 credit hours)</b>		
WGS 101	INTRODUCTION TO WOMEN AND GENDER STUDIES	3
or SOC 312 WOMEN IN SOCIETY		
<b>Electives (15 credit hours)</b>		
Select 15 credit hours, 9 or more credits must come from Group A.		15
<i>Group A: Women and Gender as Primary Focus</i>		
AED 365	SEMINAR IN FEMINIST ART AND CRITICISM	
ANT 332	GENDER AND ARCHAEOLOGY	
ANT 340	WOMEN IN ANTHROPOLOGICAL PERSPECTIVE	
CRJ 430	GENDER AND THE ADMINISTRATION OF JUSTICE	
ECO 302	WOMEN IN THE ECONOMY	
ENG 231	WOMEN IN LITERATURE	
ENG 385	GENDER AND SEXUALITY IN LITERATURE	
HEW 308	WOMEN'S HEALTH ISSUES	
HIS 302	HISTORY OF WOMEN IN AMERICA	
HIS 445	HISTORY OF WOMEN AND GENDER IN THE MIDDLE EAST	
PSC 225	WOMEN IN AMERICAN POLITICS	
PSY 387	PSYCHOLOGY OF GENDER	
REL 303	WOMEN IN GLOBAL RELIGIONS	
SOC 212	FEMINIST THEORY	
SOC 310	SOCIOLOGY OF SEX AND GENDER	
WGS 189	TOPIC COURSE	
WGS 389	TOPIC COURSE	
WGS 488	INTERNSHIP	
WGS 495	SPECIAL PROJECT	
WGS 499	INDEPENDENT STUDY	
<i>Group B: Women and Gender in A Broader Context</i>		
ANT 350	GLOBAL MARRIAGE PRACTICES	

BUS 305	WORKFORCE DIVERSITY IN THE TWENTY-FIRST CENTURY
EDU 304	WOMEN AND MATHEMATICS
FTT 348	HISTORY OF COSTUME
PHI 308	PHILOSOPHY OF LOVE AND SEX
PSC 319	GAY, LESBIAN, BISEXUAL, TRANSGENDER, QUESTIONING POLITICS
PSC 375	RACE, SEX, AND POLITICS OF MYTH AND STORY
PSY 383	THE PSYCHOLOGY OF HUMAN SEXUAL BEHAVIOR
SOC 320	SOCIOLOGY OF THE FAMILY
SOC 392	SOCIOLOGY OF SEXUAL BEHAVIOR
SPC 326	FILM ANALYSIS AND EVALUATION
SPC 333	RACE, CLASS AND GENDER IN THE MEDIA
SWK 310	SEXUALITY IN HUMAN DEVELOPMENT

**Total Credit Hours** **18**

Note: Specific sections of topics courses (e.g., ANT 189, ANT 389, COM 389, ENG 322, SWK 485) that are relevant to Women and Gender Studies may be counted toward the minor with the approval of the Women's Studies Coordinator. Group A or B status will be determined on a case-by-case basis.

## Wood/Furniture (B.F.A.)

BFA-AS WFD

### Art and Design Department Bachelor of Fine Arts (HEGIS 1009)

Upton Hall 402  
(716) 878-6032

National Association of Schools of Art and Design (NASAD)  
Accredited

The B.F.A. degree in Wood/Furniture Design is a studio-intensive program of study focused on developing the aesthetic, conceptual and technical skills necessary to foster creativity as the student works toward developing their individual identity as a visual designer/artist. This degree offers students a specialized studio-oriented education in preparation for advanced or graduate studies or for beginning careers as professional designers or artists.

Students begin with foundation courses in two-dimensional design, three-dimensional design, drawing, art history and design history along with courses in ceramics, fibers and metal/jewelry. Major courses in wood/furniture design complete the requirements. Internship opportunities/experience may be available on a case-by-case basis. The remaining credit hours are completed in required Intellectual Foundations courses and in other chosen studio courses.

### Admission Requirements

There is no entrance portfolio review for admission. All students will enter as a bachelor of fine arts (BFA-AH-

WFD) and complete a selection of foundation and major course(s) after which a portfolio review will be conducted for continuation in the bachelor of fine arts program (BFA-AH WFD). Commit-to-major portfolio reviews are conducted by faculty and generally take place during the sophomore year. After passing the portfolio review, to continue in the B.F.A. degree program a 3.0 GPA must be maintained in the major. Transfer students are urged to submit their portfolios the semester before transfer in order to facilitate placement in departmental courses and/or for possible commit-to-major portfolio review. As a condition for graduation each B.F.A student will be required to mount an individual exhibition of his/her work.

The Art and Design Department reserves the right to retain students' work for official purposes, such as exhibitions, catalogs, teaching aids, or permanent collections and to use images of the students and their work for publicity and recruitment. Students are expected to assume the costs of materials used in courses. Some studio courses may have an additional charge for materials used in class. Students enrolled in a studio course are expected to work a minimum of two additional hours each week outside of class for each credit granted for that class and the hours gradually increase as the student progresses in the major.

The Art and Design Department may be in the process of curricular revision. Please refer to the college Web site or the department for updated information.

### Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (p. )		
33-39 credit hours		33-39
<b>Wood/Furniture Design Major Requirements (79 credit hours)</b>		
<i>Foundation Courses (37 credit hours)</i>		
DES 101/ AAD 102	INTRODUCTION TO TWO-DIMENSIONAL DESIGN	3
DES/AAD 103	INTRODUCTION TO THREE-DIMENSIONAL DESIGN	3
FAR/AAD 101	DRAWING I	3
FAR 104/ AAD 150	THEMES AND ISSUES IN THE CONTEMPORARY ARTS	3
DES 108	DIGITAL DESIGN AND FABRICATION	3
DES 220	CERAMICS I	3
DES 230	INTRODUCTION TO JEWELRY MAKING	3
DES 242	FIBERS I	3
FAR 250/ AAD 251	ART HISTORY I	3
FAR 251/ AAD 252	ART HISTORY II	3
DES 312	HISTORY OF CRAFT: INDUSTRIAL REVOLUTION TO THE PRESENT	3
DES 414	SENIOR SEMINAR/EXHIBITION	4
<i>Major Courses (30 credit hours)</i>		
DES 250	WOOD DESIGN I	3

DES 350	WOOD DESIGN II	3
TEC 101	TECHNICAL DRAWING	3
DES 338	COMPUTER THREE-DIMENSIONAL MODELING AND RENDERING	3
DES 351	WOOD DESIGN: JUNIOR STUDIO	6
DES 451	WOOD DESIGN: SENIOR STUDIO	6
DES 451	WOOD DESIGN: SENIOR STUDIO	6
or DES 488	INTERNSHIP	
<i>Studio Electives Selected by Advisement (12 credit hours)</i>		
Select four from the following:		12
DES 320	CERAMICS II	
DES 330	APPLIED JEWELRY TECHNIQUES	
DES 336	METALSMITHING	
DES 342	FIBERS II	
FAR 240	INTRODUCTORY SCULPTURE	
<b>All College Electives</b>		
2-8 credit hours		2-8
<b>Total Credit Hours</b>		<b>120</b>

## World Languages Advantage Certificate

UGCT-AS WLA

### Modern and Classical Languages Department

Buckham Hall B234  
(716) 878-5414

Proficiency in a World Language is a natural enhancement for a diverse range of professions. Certificate paths consists of a five-course sequence that culminates with a 3XX-level capstone. A minimum overall GPA of 2.00 overall and a GPA of 2.66 in the language specialization is a requirement for this certificate and must be maintained up to and including the final course in the sequence. All 3XX-level courses facilitate focused study of the target language in the student's targeted career track (Self-Determined Language Learning) and oral presentations that likewise allow for connections between target language and the student's career path. Students must complete at least three courses in the Buffalo State Modern and Classical Languages Department, with at least one course at the 3XX level. Any outside credit appeals are subject to departmental approval, and in some cases, a proficiency interview may be required of students seeking to apply outside course equivalents or CLEP credits to the certificate.

The World Language Advantage Certificate is a natural fit for a wide array of majors that target the global marketplace. The main tracks target ACTFL (American Council on the Teaching of Foreign Languages) Intermediate-level proficiency, which is a baseline for workplace competence in a second language. Following is a description of Intermediate level, as outlined by ACTFL:

*Speakers at the Intermediate level are distinguished primarily by their ability to create with the language when talking about familiar topics related to their daily life. They are able to recombine learned material in order to express personal meaning. Intermediate level speakers can ask simple questions and can handle a straightforward survival situation. They produce sentence-level language, ranging from discrete sentences to strings of sentences, typically in present time. Intermediate-level speakers are understood by interlocutors who are accustomed to dealing with non-native learners of the language. (ACTFL Proficiency Guidelines, 2012, p. 7)*

Within the World Languages Advantage Certificate, there are several specialized 'languages for specific purposes' tracks that target ACTFL Advanced-level proficiency, and target specific career paths, including (but not limited to): professional French or Spanish and Educational Spanish. Following is a general description of ACTFL-Advanced:

*Speakers at the Advanced level engage in conversation in a clearly participatory manner in order to communicate information on autobiographical topics, as well as topics of community, national, or international interest. The topics are handled concretely by means of narration and description in the major times frames of past, present, and future. These speakers can also deal with a social situation with an unexpected complication. The language of Advanced-level speakers is abundant, the oral paragraph being the measure of Advanced-level length and discourse. Advanced-level speakers have sufficient control of basic structures and generic vocabulary to be understood by native speakers of the language, including those unaccustomed to non-native speech. (ACTFL Proficiency Guidelines, 2012, p. 5)*

As the demand for proficiency in another language increases, new specializations are likely to emerge, depending on demand. Even if students do not directly enroll in these specialized tracks, from the 202 level-onward, they can expect more and more opportunities to engage with the language in contemporary professional settings.

The certificate tracks are as follows:

### World Language Advantage: Chinese

Code	Title	Credit Hours
<b>Required Courses</b>		
CHI 101	BEGINNING CHINESE I	3
CHI 102	BEGINNING CHINESE II	3
CHI 201	INTERMEDIATE CHINESE I	3
CHI 202	INTERMEDIATE CHINESE II	3
CHI 301	CHINESE CONVERSATION AND COMPOSITION I	3
<b>Total Credit Hours</b>		<b>15</b>

### World Language Advantage: French

Code	Title	Credit Hours
<b>Required Courses</b>		
FRE 101	BEGINNING FRENCH I	3
FRE 102	BEGINNING FRENCH II	3

FRE 201	INTERMEDIATE FRENCH I	3
FRE 202	INTERMEDIATE FRENCH II	3
FRE 301	INTRODUCTION TO FRANCOPHONE CULTURE	3

#### World Language Advantage: German

Code	Title	Credit Hours
<b>Required Courses</b>		
GER 101	BEGINNING GERMAN I	3
GER 102	BEGINNING GERMAN II	3
GER 201	INTERMEDIATE GERMAN I	3
GER 202	INTERMEDIATE GERMAN II	3
GER 301	GERMAN CONVERSATION AND COMPOSITION I	3
<b>Total Credit Hours</b>		<b>15</b>

#### World Language Advantage: Italian

Code	Title	Credit Hours
<b>Required Courses</b>		
ITA 101	BEGINNING ITALIAN I	3
ITA 102	BEGINNING ITALIAN II	3
ITA 201	INTERMEDIATE ITALIAN I	3
ITA 202	INTERMEDIATE ITALIAN II	3
ITA 301	ITALIAN CONVERSATION AND COMPOSITION	3
<b>Total Credit Hours</b>		<b>15</b>

#### World Language Advantage: Spanish

Code	Title	Credit Hours
<b>Required Courses</b>		
SPA 101	BEGINNING SPANISH I	3
SPA 102	BEGINNING SPANISH II	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
SPA 301	INTRODUCTION TO HISPANIC CULTURES	3
<b>Total Credit Hours</b>		<b>15</b>

#### World Language Advantage: Professional French

Code	Title	Credit Hours
<b>Required Courses</b>		
FRE 203	WORKPLACE FRENCH I	3
FRE 204	WORKPLACE FRENCH II	3
FRE 301	INTRODUCTION TO FRANCOPHONE CULTURE	3
FRE 302	INTRODUCTION TO FRANCOPHONE MEDIA	3
FRE 310	ISSUES IN PROFESSIONAL COMMUNICATION	3
<b>Total Credit Hours</b>		<b>15</b>

#### World Language Advantage: Professional Spanish

Code	Title	Credit Hours
<b>Required Courses</b>		
SPA 203	PROFESSIONAL SPANISH I	3
SPA 204	PROFESSIONAL SPANISH II	3
SPA 301	INTRODUCTION TO HISPANIC CULTURES	3
SPA 302	INTRODUCTION TO HISPANIC MEDIA	3
SPA 317	BUSINESS SPANISH	3
<b>Total Credit Hours</b>		<b>15</b>

#### World Language Advantage: Spanish for Education Professionals

Code	Title	Credit Hours
<b>Required Courses</b>		
SPA 200	SPANISH FOR EDUCATION PROFESSIONALS I	3
SPA 206	SPANISH FOR EDUCATION PROFESSIONALS II	3
SPA 301	INTRODUCTION TO HISPANIC CULTURES	3
SPA 302	INTRODUCTION TO HISPANIC MEDIA	3
SPA 321	ISSUES AND THEMES IN CONTEMPORARY HISPANIC CULTURES	3
<b>Total Credit Hours</b>		<b>15</b>

## Writing (B.A.)

BA-AS WRT

### English Department Bachelor of Arts (HEGIS 1507)

Ketchum Hall 208  
(716) 878-5416

The Writing B.A. degree program offers students an opportunity to combine the study and practice of the craft of writing with the study of literature, theater, television and communication arts. The writing degree program allows for the development of skills in creative writing, journalistic writing, literary writing, and/or technical writing. Students can take courses from a variety of disciplines to fulfill their requirements. The program is intended for students interested in the advanced study and practice of writing.

### Program Requirements

Code	Title	Credit Hours
	Intellectual Foundations Requirements (p. )	
	33-39 credit hours	33-39

### English Major Requirements (42 credit hours)

24 credits must be upper-division

*Required Courses (12 credit hours)*

ENG 190	INTRODUCTION TO LITERATURE (must be taken immediately after completion of freshman composition requirement or within first year of transfer to English Department)	3
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ENG 201	THE CRAFT OF WRITING (Should be taken soon after completion of freshman composition requirement or within first year of transfer to English Department. Serves a prerequisite for upper-division writing courses.)	3
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ENG 410	COMPOSITION AND RHETORICAL THEORY	3
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ENG 491	WRITING SEMINAR FOR WRITING MAJORS	3
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*Electives in Writing (15 credit hours)*

Select five courses from the following areas: 15

Students may choose to concentrate their studies in one primary area or may select freely from across the options.

**Creative Writing**

ENG 170	INTRODUCTION TO CREATIVE WRITING	
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ENG 305	CREATIVE WRITING: NARRATIVE	
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ENG 306	CREATIVE WRITING: POETRY	
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ENG 402	ADVANCED CREATIVE WRITING: NARRATIVE	
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ENG 403	ADVANCED CREATIVE WRITING: POETRY	
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THA/ENG 340	PLAYWRITING	
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THA 470	ENSEMBLE THEATER	
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**Professional Writing**

ENG 245	WRITING ABOUT THE ARTS	
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ENG 300	WRITING FOR THE PROFESSIONS	
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ENG 302	TECHNICAL WRITING	
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COM 308	PUBLIC RELATIONS WRITING	
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COM 304	WRITING FOR BROADCAST (TV, RADIO, FILM)	
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ENG 327	LITERARY PUBLISHING	
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ENG 409	WRITING GRANTS AND PROPOSALS	
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**Journalism**

COM 303	WRITING FOR PRINT AND ONLINE JOURNALISM	
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COM 325	FEATURE WRITING	
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COM 390	SPECIAL TOPICS: JOURNALISTIC WRITING	
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**Literary Genres**

ENG 247	NATURE WRITING	
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ENG 266	THE PERSONAL ESSAY	
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ENG 320	AUTOBIOGRAPHY AND MEMOIR	
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ENG 325	CREATIVE NON-FICTION	
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*Electives in Literature, Linguistics, or Film (15 credit hours)*

Select five literature, linguistics, and film courses offered by the Communication, English, Modern and Classical Languages, and Theater Departments; at least two courses must be upper-division. 15

**All College Electives**  
39-45 credit hours 39-45

**Total Credit Hours** 120

## Writing Minor

WTG

**English Department**

Ketchum Hall 208  
(716) 878-5416

The writing minor offers students an opportunity to design a writing program that coincides with their major and/or their career plans. Writing is perhaps the single most important skill students can develop, and the writing minor gives interested students a wide degree of flexibility in designing a program that increases that skill. The minor allows for the development of skills in creative writing, journalistic writing, and/or professional writing of various kinds. It should appeal to English majors, communication majors, and students in applied or professional areas seeking a strong writing component in their studies.

Students design their program with the coordinator of the Writing major, the English Department chair, or the Communication Department chair. Students can focus their minor program on creative, journalistic, or technical writing, or they can take a combination of courses from these different areas.

**Program Requirements**

Code	Title	Credit Hours
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**Required Courses (3 credit hours)**

ENG 201	THE CRAFT OF WRITING	3
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**Electives (15 credit hours)**

Select 15 credit hours; 12 credit hours must be upper-division: 15

*English Department Courses*

**Creative Writing**

ENG 170	INTRODUCTION TO CREATIVE WRITING	
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ENG 305	CREATIVE WRITING: NARRATIVE	
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ENG 306	CREATIVE WRITING: POETRY	
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ENG 402	ADVANCED CREATIVE WRITING: NARRATIVE	
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ENG 403	ADVANCED CREATIVE WRITING: POETRY	
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THA/ENG 340	PLAYWRITING	
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**Professional Writing**

ENG 245	WRITING ABOUT THE ARTS	
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ENG 300	WRITING FOR THE PROFESSIONS
ENG 302	TECHNICAL WRITING
ENG 327	LITERARY PUBLISHING
ENG 409	WRITING GRANTS AND PROPOSALS
Literary Genres	
ENG 247	NATURE WRITING
ENG 266	THE PERSONAL ESSAY
ENG 320	AUTOBIOGRAPHY AND MEMOIR
ENG 325	CREATIVE NON-FICTION
<i>Communication Department Courses</i>	
COM 210	INTRODUCTION TO MEDIA WRITING
COM 303	WRITING FOR PRINT AND ONLINE JOURNALISM
COM 304	WRITING FOR BROADCAST (TV, RADIO, FILM)
COM 308	PUBLIC RELATIONS WRITING
COM 325	FEATURE WRITING
COM 390	SPECIAL TOPICS: JOURNALISTIC WRITING <sup>1</sup>

**Total Credit Hours** **18**

<sup>1</sup> COM 390 may be repeated with a different title as topics vary.

## Course Listings

### Course Coding System

At the time of the printing of this catalog, all incoming students at Buffalo State College, both first-year and transfer students, are required to fulfill requirements IF14.

Banner codes are used to identify which Intellectual Foundations 14 requirement(s) a course fulfills. The IF14 codes are as follows:

Code	IF Requirement Area
AH14	Foundations of Civilizations: American History
AR14	Cognate Foundation: Arts
DI14	Diversity
GE14	Global Engagement
HU14	Cognate Foundations: Humanities
MQ14	Mathematics/Quantitative Reasoning
NS14	Cognate Foundations: Natural Sciences
NW14	Foundations of Civilizations: Non-Western Civilizations
SS14	Cognate Foundations: Social Sciences
WC14	Foundations of Civilizations: Western Civilizations

Here's a sample course listing:

ANT 300 INDIGENOUS PEOPLES OF WESTERN NORTH AMERICA 3, 3/0; DI14, NW14

Prerequisite: ANT 100 or permission of instructor. Way of life of the original inhabitants of Western North America; reconstructing life during the seventeenth, eighteenth, and nineteenth centuries using archaeology, historical documents, and oral tradition. Tribal nations of the Plains, Northwest Coast, Southwest, Great Basin, Plateau, and California. Effects of European exploration and colonization and the persistence of indigenous Western North American peoples in the modern world.

Here's what it means:

ANT 300 INDIGENOUS PEOPLES OF WESTERN NORTH AMERICA 3, 3/0, DI14, NW14

This is an anthropology course, number 300.

The number of semester credit hours the course earns, the number of lecture hours the class meets per week/number of studio or lab hours per week.

This course satisfies two requirements in Intellectual Foundations 14: Diversity (DI14) and the Foundations of Civilizations Non-Western Civilizations (NW14).

Prerequisites: Prerequisites or requirements you must fulfill before registering for a course. For this course, students must have taken ANT 100 first.

The remainder of the course listing describes the subject matter.

### A

- African and African American S (AAS) (p. 199)
- Anthropology (ANT) (p. 202)
- Applied Mathematics (AMT) (p. 206)
- Arabic (ARA) (p. 206)
- Art & Design (AAD) (<http://ecatalog.buffalostate.edu/undergraduate/course-listings/aad/>)
- Art Education (AED) (p. 206)
- Art Therapy Studies (ATS) (p. 208)
- Arts & Letters (ALT) (p. 208)

### B

- Biology (BIO) (p. 208)
- Business & Marketing Education (BME) (p. 211)
- Business (BUS) (p. 212)

### C

- Career & Technical Education (CTE) (p. 215)
- Chemistry (CHE) (p. 217)
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## E

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- Forensic Science (FOR) (p. 272)
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## R

- Religious Studies (REL) (p. 330)

## S

- Safety Studies (SAF) (p. 331)
- Science (SCI) (p. 331)
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- Social & Psychol Found of Ed (SPF) (p. 332)
- Social Studies Education (SSE) (p. 334)
- Social Work (SWK) (p. 335)
- Sociology (SOC) (p. 337)
- Spanish (SPA) (p. 340)
- Speech Communication (SPC) (p. 343)
- Speech Language Pathology (SLP) (p. 344)

## T

- Technology (TEC) (p. 346)
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## U

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- University College-UNC (UNC) (p. 353)

## W

- Women and Gender Studies (WGS) (p. 354)

## African and African American Studies (AAS)

AAS 100 INTRODUCTION TO AFRICANA STUDIES  
3, 3/0; DI14

Critical and systematic study of the historical and contemporary thought and experiences of continental and diasporic African peoples. Overview of the social, political, and economic forces that shaped and continue to affect continental and diasporic African experiences. The agency, creativity, perspectives, and experiences of African peoples. Contemporary issues affecting Africans and African Americans. Offered every semester.

AAS 189 TOPICS COURSE  
3, 3/0  
Offered occasionally.



**AAS 209 SUB-SAHARAN AFRICAN MUSIC AND CULTURES**

3, 3/0

Study of the cultures of sub-Saharan Africa focused on the histories and musics from four specific regions. Two-thirds of class time is in lecture format; one-third is dedicated to learning and performing African rhythms on percussion instruments. Offered annually.

Equivalent Course: MUS 209

**AAS 218 AFRICAN AMERICAN POLITICAL CULTURE**

3, 3/0

Political beliefs, attitudes, and practices that pertain to African American politics in a cultural context; causality and linkage inherent in the reciprocal relationship between African Americans and the American political system. Offered fall only.

Equivalent Course: PSC 218

**AAS 221 THE HISTORY OF BLACK EDUCATION IN AMERICA**

3, 3/0

The role of blacks in the American educational system. Changes that have taken place to improve or retard education for blacks. Approaches for providing meaningful education for blacks now and in the future. Offered occasionally.

**AAS 222 THE DEVELOPMENT OF MODERN EDUCATION IN AFRICA**

3, 3/0

Educational changes in Africa from the colonial era to the present and their effects on social and political issues in Africa and abroad. Offered occasionally.

**AAS 230 DANCE TECHNIQUES FROM THE AFRICAN AMERICAN PERSPECTIVE**

3, 2/2

The continuity of African American dance from traditional African to contemporary American through dance technique. Introduction to several dance forms: traditional, modern, and jazz; the cultural history that influenced these dance forms; and the contributions of significant choreographers. Dance performance attendance is required. Offered fall semester.

Equivalent Course: DAN 230

**AAS 234 THE POLITICS OF BLACK DANCE IN AMERICA**

3, 3/0

The development of African American dance and the contributions of African American artists through lecture and film. Emphasis on the evolution of traditional African dance forms and their influence on the contemporary dance vernacular. Dance performance attendance is required. Offered as required.

Equivalent Course: DAN 234

**AAS 240 AFRICAN AMERICAN LITERATURE TO 1940**

3, 3/0; DI14, HU14

African American slave narratives, poetry, fiction, essays, and drama from the eighteenth century to 1940. The influence of spirituals, gospel, the blues, jazz, sermons, and folktales on African American writing; the Harlem Renaissance of the 1920s and 1930s; and the development of African American revolutionary thought. Offered fall only.

Equivalent Course: ENG 240

**AAS 241 AFRICAN AMERICAN LITERATURE SINCE 1940**

3, 3/0

Realism, naturalism, modernism, and postmodernism in African American literature; black revolutionary thought and artistry in the 1960s and 1970s; neo-slave narratives; African American poetry, fiction, essays, and drama from 1940 to the present; influence of spirituals, gospel, the blues, jazz, sermons, and folktales on contemporary African American writing. Offered spring only.

Equivalent Course: ENG 241

**AAS 250 JAZZ DANCE TECHNIQUE I**

3, 2/2

Technique, studies, and compositional problems illustrating the diverse possibilities of jazz dance, with special attention to the ethnic foundation of this form. Dance performance attendance is required. Offered alternate fall semester.

Equivalent Course: DAN 250

**AAS 304 MODERN JAZZ**

3, 3/0

Prerequisite: MUS 206. An explanation of the history and development of modern jazz from 1941 to the present. Offered occasionally.

Equivalent Course: MUS 305

**AAS 305 PEOPLES OF AFRICA**

3, 3/0

Cross-cultural comparisons of indigenous and modern African nations. Emphasis is placed upon regional, linguistic, social, political, religious, economic, and aesthetic characteristics, as well as historical and recent population migrations on the African continent and the surrounding islands. Offered occasionally.

Equivalent Course: ANT 305

**AAS 306 AFRICA TO 1800**

3, 3/0

Prerequisite: Upper-division status or instructor permission. African history from the Paleolithic period to 1800. Development of agriculture, ancient civilizations of Africa, iron working societies, the trans-Saharan trade, the impact of Islam and Christianity, traditional African political and social arrangements, the slave trade, and the European presence in early modern Africa. Offered occasionally.

Equivalent Course: HIS 306

**AAS 321 THE AFRICAN AMERICAN FAMILY**

3, 3/0; DI14

The examination of the relationship between American social institutions and the African American family and familial relations within the African American family. Offered fall only.

Equivalent Course: SOC 321

**AAS 322 AFRICAN AMERICAN HISTORY**

3, 3/0

Heritage of black Americans; African Americans' existence under slavery; their role in influencing historical events; activity in the Civil War period; the freed men during reconstruction; migration to the north and adjustment to urban life. African American leaders, institutions, and ideas, and their impact on modern America. Offered every semester.

Equivalent Course: HIS 322

**AAS 326 BLACK FEMINIST THOUGHT**  
3, 3/0

This course provides an introduction to Black feminist thought from the 19th century through the present. Topics include the origins and development of intersectional thinking, intersectionality in contemporary social thought, and critical race theory. The course draws from multiple academic disciplines, public intellectualism, and activist work. Offered occasionally.

Equivalent Courses: SOC 326, WGS 326

**AAS 333 AFRICAN INTERNATIONAL RELATIONS**  
3, 3/0

African international politics vis-à-vis international relations theory, models, and concepts; power; multipolarity; bipolarity; pan-Africanism, North-South debate; approaches to international politics; and state and international organizations as international actors. Offered occasionally.

Equivalent Course: PSC 333

**AAS 337 AFRICA SINCE 1800**  
3, 3/0; NW14

African history since 1800. Abolition of the slave trade, pre-colonial culture and society, partition of Africa by European nations, impact of colonial regimes, African resistance movements, colonial nationalism, world wars and decolonization, Apartheid in South Africa, impact of the Cold War, and neo-colonialism. Offered occasionally.

Equivalent Course: HIS 337

**AAS 340 ETHNOMUSICOLOGY**  
3, 3/0

Prerequisite: MUS 303. Lectures, readings, and recordings introducing principal musical traditions of selected non-Western cultures, such as African, Indic, and Sinitic. Consideration of the African American tradition, including jazz and rock. Includes individual projects of music or cultural analysis. Required for music majors. Offered occasionally.

**AAS 341 AFRICAN-AMERICANS AND CIVIL RIGHTS**  
3, 3/0

History of the landmark court decisions, laws, and governmental policies regarding the civil rights of African Americans. The course examines some of the historic relationships among race, racism, law, and public policy in America. Focuses on resistance, protest, and the quest for equality in America. Offered occasionally.

Equivalent Course: HIS 341

**AAS 343 WHY AFRICA MATTERS**  
3, 3/0

Prerequisite: AAS 100. Introduces students to Black or African Psychology. Focuses on the history of Black Psychology in the context of the turbulent sixties. Explores discipline's philosophical foundations in African cultures globally. Highlights the theoretical ingenuity and clinical application of the discipline. Offered every spring.

**AAS 349 WEST AFRICAN DRUMMING ENSEMBLE**  
1, 1/0

Prerequisite: Instructor permission. Introduction to traditional West African rhythms on djembes, dundun drums, and iron bells. Students explore cultural contexts and learn to give and respond to rhythmic signals, learn to play different rhythms simultaneously, and learn culturally and rhythmically appropriate improvisation techniques. Offered every semester.

Equivalent Course: MUS 349

**AAS 351 SOCIOLOGY OF RACE AND ETHNICITY**  
3, 3/0; DI14

Prerequisite: SOC 100. The study of racial and ethnic groups in American and other societies; focuses on forms, causes, and effects of prejudice and ethnic conflicts, and the changing relationships of these groups to the larger society. Possible solutions to social problems involving issues of race and ethnicity are also explored. Offered every semester.

Equivalent Course: SOC 351

**AAS 354 THE MODERN CARIBBEAN**  
3, 3/0

Prerequisite: CWP 102 or equivalent. Introduction to the conundrums of freedom, independence, and sovereignty as experienced in the modern Caribbean. Topics will include the Haitian Revolution; abolitionism and emancipation; labor conflicts between freedpeople and planters; race, religion, and imperialism; American expansionism and occupation; decolonization, departmentalization, and independence; globalization and nonsovereignty; contemporary politics and society.

Equivalent Course: HIS 354

**AAS 360 AFRICANA PHILOSOPHY**  
3, 3/0

Prerequisites: One PHI or AAS course. Philosophical thought across the African diaspora. Both historic and contemporary responses to issues specific to the Black experience across the globe, such as understanding freedom, rationality, and humanity from the position of the formerly enslaved and/or colonized, and analysis regarding the intersections of race, gender, and white supremacy. Offered every spring.

Equivalent Course: PHI 360

**AAS 361 RACE AND PROGRESS**  
3, 3/0; DI14

African American philosophical thought with a specific focus on the concept of progress. Both historic and contemporary responses to issues specific to the African American experience, such as understanding the concepts of race and racism, social and political forces required to generate progress, and the limits of progress within the Black community. Offered fall semester only.

Equivalent Course: PHI 361

**AAS 366 AFRICAN AMERICAN ART**  
3, 3/0

Prerequisites: FAR 250 and FAR 251. Survey of African American Art. Examines African American art as well as the relationship of art to politics and the formation of racial/cultural identity. Offered alternate years.

Equivalent Course: FAR 366

**AAS 373 "SAVING" AFRICA**  
3, 3/0

Prerequisite: AAS 100, or upper division standing, or permission of instructor. Examines what Western efforts at foreign development, including contemporary globalization, look like from an African vantage. Incorporates ethnographic case studies, theoretical lenses, and practical implications for doing development work into the examination. Offered every fall semester.

### AAS 380 ART OF AFRICA

3, 3/0

The history of art in Africa from prehistory through the twentieth century. Arts from diverse regions of the continent are examined in their cultural context, with an emphasis on local and regional variations in style and iconography in the domestic, sacred, and royal arts. African responses to the development of slavery, imperialism, and other external stimuli are considered in relation to the use and trade of raw materials and the creation of new symbolic forms. Offered alternate years.

Equivalent Course: FAR 380

### AAS 389 TOPICS IN AFRICANA STUDIES

1-3, 1/0

Examination of current issues or topics in Africana Studies; offered occasionally.

### AAS 421 BLACK DRAMA IN AMERICA

3, 3/0

Prerequisites: CWP 102 or equivalent. An exploratory and critical analysis of African-American playwrights (and playwrights of African descent) and their works. Students will participate in play readings and discussions related to the plays' social and historical context. Offered biennially.

Equivalent Course: THA 421

### AAS 425 RACE, ETHNICITY, AND THE ADMINISTRATION OF JUSTICE

3, 3/0

Prerequisites: CRJ 101 and senior level status. The current state of race relations in society and the criminal justice system; the historical experiences of different racial and ethnic groups in the United States and their relation to law and the criminal justice system as victims, offenders, and officials in criminal justice institutions. Offered every semester.

Equivalent Course: CRJ 425

### AAS 468 READINGS IN AFRICAN AMERICAN HISTORY

3, 3/0

The major historical writings on selected periods and topics in African American history. Readings, discussions, and writing book reviews and biographical essays. Offered occasionally.

Equivalent Course: HIS 468

### AAS 469 BLACK PROTEST AND LEADERSHIP IN THE U.S. IN THE TWENTIETH CENTURY

3, 3/0

The black protest movements and leaders in twentieth-century America. Offered occasionally.

Equivalent Course: HIS 469

### AAS 485 ADVANCED SEMINAR IN AFRICANA STUDIES

3, 3/0

Prerequisites: 12 credits of AAS and senior standing. Detailed exploration of contemporary issues affecting African and African American peoples. Capstone course that seeks to integrate the knowledge acquired in the interdisciplinary study of African and African American peoples. Emphasis on analysis of issues, evaluation of solutions, and creative problem solving.

### AAS 488 INTERNSHIP

1-6, 0/0

Prerequisite AAS 100. Guided, supervised field experiences that complement the academic program. Students must have background of courses or experiences within the area of interest and approval by the program coordinator. Offered occasionally.

### AAS 495 SPECIAL PROJECT

1-3, 0/0

### AAS 499 INDEPENDENT STUDY

3-9, 0/0

Prerequisite: Faculty adviser permission must be secured prior to registration. Offered occasionally.

## Anthropology (ANT)

### ANT 100 HUMAN ORIGINS

3, 2/2; NS14

Introduction to biological anthropology and archeology. Biological anthropology: evolutionary theory and genetics, the human fossil record, and the study of non-human primates. Archeology scientifically reconstructs past cultures: the basics of archeological data and dating methods. The transformation from a hunting and gathering lifestyle to one based on food production and the consequences of this transformation that include, in some instances, the development of complex sociopolitical institutions and state societies. Offered every semester.

### ANT 101 UNDERSTANDING CULTURE

3, 3/0; NW14

Human behavior and culture; formation of personality; nature of social structure, interaction, and the satisfaction of human needs. Cross-cultural comparisons. Recommended as a first or second course in anthropology. Offered every semester.

### ANT 189 TOPICS COURSE

1-3, 1/0

Offered occasionally.

### ANT 200 EXPLORATIONS IN ANTHROPOLOGY

3, 3/0

Prerequisites: ANT 100, ANT 101, or permission of instructor. Research skills necessary to do well in upper-division Anthropology courses: finding anthropological studies in the literature, reading scientific papers and ethnographies, and conducting basic data analysis. Intended for Anthropology majors and minors early in their academic careers. Offered every spring.

### ANT 220 CASE STUDIES IN BIOLOGICAL ANTHROPOLOGY

3, 3/0

Introduction to biological anthropology through detailed examination of exemplary case studies covering a broad range of topics in biological anthropology. The process of inquiry in physical anthropology, including initial conception of the research question, methodology, results, and conclusions. Ethics of biological anthropology research. Offered occasionally.

ANT 244 FOLKLORE AND LIFE

3, 3/0; SS14

Prerequisite: CWP 102. Introduction to the major genres of folklore and folk life and their function in contemporary society; including roots music, ethnic and occupational folklore, rites of passage and calendar customs, and traditional narratives. The relationship between folklore and popular culture. Offered occasionally.

ANT 250 HISTORICAL ARCHAEOLOGY

3, 3/0; AH14

Prerequisite: ANT 100. Archaeology of the United States from 1500 through the American Civil War. Material life and diversity of sociocultural experiences in the United States during this period. Offered spring odd years.

ANT 295 RESEARCH EXPERIENCE IN ANTHROPOLOGY

1-3, 0/0

Prerequisite: Instructor permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

ANT 300 INDIGENOUS PEOPLES OF WESTERN NORTH AMERICA

3, 3/0; DI14, NW14

Prerequisite: ANT 100. Way of life of the original inhabitants of Western North America; reconstructing life during the seventeenth, eighteenth, and nineteenth centuries using archaeology, historical documents, and oral tradition. Tribal nations of the Plains, Northwest Coast, Southwest, Great Basin, Plateau, and California. Effects of European exploration and colonization and the persistence of indigenous Western North American peoples in the modern world. Offered fall even years.

ANT 301 INDIGENOUS PEOPLES OF EASTERN NORTH AMERICA

3, 3/0; DI14, NW14

Prerequisite: ANT 100. The way of life of the original inhabitants of Eastern North America. Reconstructing life during the sixteenth and seventeenth centuries using archaeology, historical documents, and oral tradition. Details of the early seventeenth-century Wendat/Huron Haudenosaunee/Five Nation Iroquois and Powhatan confederacies. Highlights the effects of European exploration and colonization and the persistence of indigenous Eastern North American peoples in the modern world. Offered fall odd years.

ANT 303 THE ANTHROPOLOGY OF EUROPE

3, 3/0; WC14

Prerequisite: ANT 101. Introduction to the anthropology of Europe and European culture. The course discusses the traits and development of distinctive cultural features of European peoples through cultural histories of Europe in general and ethnographic case studies. It related the development and influence of Western civilization to other regions of the world. Offered occasionally.

ANT 305 PEOPLES OF AFRICA

3, 3/0

Prerequisite: ANT 101. Cross-cultural comparisons of indigenous and modern African nations. Emphasis is placed upon regional, linguistic, social, political, religious, economic, and aesthetic characteristics as well as historic and recent population migrations on the African continent and the surrounding islands. Offered occasionally.

Equivalent Course: AAS 305

ANT 306 PEOPLES OF ASIA

3, 3/0

Prerequisite: ANT 101. Cross-cultural comparisons of indigenous and modern nations of Asia. Emphasis on regional, linguistic, social, political, religious, economic, and aesthetic characteristics as well as historic and recent population migrations on the Asian continent and surrounding islands. Offered occasionally.

ANT 307 URBAN ANTHROPOLOGY

3, 3/0

Prerequisite: ANT 101. Study of the origins and evolution of cities around the world; their impact upon the human family and other social relationships, and the physical environment. Early and recent viewpoints on life in cities, suburbs and rural communities. Offered occasionally.

ANT 308 ARCHAEOLOGICAL METHOD

6, 0/0

Prerequisite: ANT 100. Laboratory and field methods in archaeology. Opportunity for practical experience with various archaeological techniques. Offered summer only.

ANT 310 MESOAMERICAN ARCHAEOLOGY

3, 3/0; NW14

Prerequisites: ANT 100. Overview of ancient civilizations of Mesoamerica, including Olmecs, Maya, Monte Alban, Teotihuacan, Toltecs, and Aztecs using archaeological evidence, hieroglyphic texts, iconography, and ethnohistorical sources. Comparative analysis of art, architecture, religion, political structure, economic and social organization of societies in Mesoamerica from archaic foraging groups through Spanish contact. Offered spring even years.

ANT 312 ARCHAEOLOGY OF NORTH AMERICA

3, 3/0

Prerequisite: ANT 100. Prehistory of North America beginning with earliest human presence, including the Paleo-Indian period; Archaic, Woodland, and Mississippian in the East; periods comparable in time in the West. Offered spring even years.

ANT 315 RESEARCH METHODS IN CULTURAL ANTHROPOLOGY

3, 3/0

Prerequisite: ANT 101. Research methods in cultural anthropology covering fieldwork, participant-observation, sampling, measurements, documentation, statistical and cross-cultural methods. Offered fall even years.

ANT 321 PRIMATOLOGY

3, 3/0

Prerequisite: ANT 100. Study of living prosimians, monkeys, and apes, including taxonomy, social organization, feeding and ranging, community ecology, and conservation; field studies of natural populations. Offered fall odd years.

**ANT 322 RESEARCH METHODS IN PRIMATOLOGY**  
3, 1/4

Prerequisite: ANT 321. Study and practice of behavioral observation techniques used in primatology. Independent research project on the primates at the Buffalo Zoo. Presentation of research results to the campus community (e.g., the Student Research and Creativity Celebration) and at the Buffalo Zoo.

**ANT 323 ANTHROPOLOGY OF DISEASE**  
3, 3/0

Prerequisites: ANT 100. Study of ill health from an anthropological perspective. Biological anthropology; how cultural activities contribute to the spread of disease; how disease manifests itself in the archaeological record; how the language used for disease impacts thinking about disease; how anthropologists contribute to the fight against disease. Understanding epidemiological concepts via current events. Offered spring odd years.

**ANT 324 THE HUMAN SKELETON**  
3, 3/0

Prerequisite: ANT 100. Hands-on experience with natural human skeletons to learn all bones, landmarks, and features of the bones; how to determine the side of the body the bone came from, determine if a bone is from a male or female, estimate age at death, and estimate stature of the individual. Offered fall only.

**ANT 325 FORENSIC ANTHROPOLOGY**  
3, 3/0

Prerequisite: ANT 324. Forensic applications of the recovery and identification of human skeletal remains. Determination of age, sex, and ancestry. Also taphonomy, differentiating human from animal remains, analysis and significance of traumas, and search and recovery techniques. Offered spring only.

**ANT 326 THE HUMAN FOSSIL RECORD**  
3, 3/0

Prerequisite: ANT 100. Human evolution as derived from the fossil record examination of major fossil hominid discoveries, their interpretation, and their place in the development of the human species. Offered spring even years.

**ANT 327 INTRODUCTION TO MEDICAL ANTHROPOLOGY**  
3, 3/0; NW14

Prerequisite: ANT 101. An overview of the history and development of concepts and practices of medicine worldwide. Theories and procedures in illness, sickness, health and well-being in and from a variety of cultural perspectives, historical and contemporary, East and West. Stone Age, folk, shaman, traditional Western and herbal medicine, including healing and religion, homeopathy, and anthropological study of health-care institutions. Offered occasionally.

Equivalent Course: HEW 327

**ANT 329 WORLD PREHISTORY**  
3, 3/0; NW14

Prerequisite: ANT 100. An overview of the major developments in human culture as inferred from the archaeological record. Past cultures of hunter-gatherers, the first farmers, and early civilizations will be described as well as their legacy for the modern world. Offered summer odd years.

**ANT 330 INDIGENOUS HAWAIIANS**  
3, 3/0; DI14, NW14

Prerequisites: ANT 100 or ANT 101. Lifeways of the original inhabitants of the Islands of Polynesia, especially the Hawaiian archipelago. Origins, geography/ecology, cultural identity and agency, political struggles from the 10th century to today of Indigenous Hawaiian peoples using archaeological, historical documents, and oral tradition evidence. Representations of Indigenous Hawaiians originating inside and outside the region. Encounters and transformation by first inhabitants, explorers, missionaries, colonists, and recent global flows of people. Modern sovereignty movements, reclamation of sacred landscapes, and the return of cultural meanings associated with hula and surfing. Offered biennially in Spring semester.

**ANT 332 GENDER AND ARCHAEOLOGY**  
3, 3/0; NW14

Prerequisites: ANT 100 or instructor permission. Gender, sex, cultural construction of gender roles, alternative genders, impact of gender roles on social structure, and reflection of gender and gender roles on the material culture of past human societies. Archaeological evidence of gender including art, iconography, burial patterns, human remains, settlement patterns, architecture, and craft production.

**ANT 335 ETHNOPRIMATOLOGY**  
3, 3/0

Prerequisites: ANT 100 or instructor permission. The study of interactions between humans and nonhuman primates. Focus on the hunting of nonhuman primates for food; the keeping of nonhuman primates as pets; the inclusion of nonhuman primates into myths, oral histories, and religion; and the competition between humans and nonhuman primates for habitat and food. Offered every other year.

**ANT 340 WOMEN IN ANTHROPOLOGICAL PERSPECTIVE**  
3, 3/0

Prerequisite: ANT 101. The study of women's position with attention to political, social, and cultural influences on female status in a cross-cultural perspective. Offered occasionally.

**ANT 341 INDIGENOUS ART OF NORTH AMERICA**  
3, 3/0

Prerequisites: ANT 100 or instructor permission. The study of art from an anthropological perspective using case studies from the Indigenous cultures of North America from the pre-contact period until today. Examination of art and material culture within Indigenous communities. How material culture and art can be used as evidence for human behavior, especially ritual behavior. Historical factors affecting the production and use of material culture and art. Continuity and change within material culture/artistic repertoires. Offered spring odd years.

**ANT 344 FOLKLORE & FANTASY IN POPULAR CULTURE: FROM MIDDLE-EARTH TO HOGWARTS**  
3, 3/0; W1F

Prerequisites: CWP 102 or equivalent, upper class standing. How J. R. R. Tolkien, the creator of modern fantasy writing, based his mythology for England on the work of 18th and 19th century folklorists. Influence of the work of myth scholars, primarily Joseph Campbell, on George Lucas and other film makers in the Star Wars trilogies and similar films and television series. Creation of folk groups (fandoms) based on fantasy novels and films, especially since the rise of the Internet. Offered occasionally.

**ANT 350 GLOBAL MARRIAGE PRACTICES**

3, 3/0; NW14

Prerequisites: Upper level standing. Cross-cultural and comparative marriage practices through a comparative examination of kinship, gender, and economy in different places. Interdisciplinary materials in Anthropology, Sociology, History, Legal Studies, Women and Gender Studies, and Popular Culture. Offered fall odd years.

**ANT 362 URBAN FOLKLORE**

3, 3/0

Folklore in the urban environment. The role of folklore in the creation and preservation of ethnic, occupational and community identity. Folklore in the media and popular culture. Offered occasionally.

**ANT 365 PRACTICING ANTHROPOLOGY**

3, 3/0

Prerequisite: ANT 101. The application of anthropology and anthropological perspectives to contemporary community and world issues and problems. Focus on the practice of anthropology as a career outside academia, in social services, international relations, government positions, community organizing, etc. The relevance of anthropological principles in day-to-day life. Offered occasionally.

**ANT 367 CULTURE AND ECOLOGY**

3, 3/0

Prerequisite: ANT 101. Overview of the anthropological study of culture and ecology-environmental anthropology-the evolutionary and comparative study of various cultures' relations, both biological and cultural, to their environments. Industrial and nonindustrial adaptations to and understandings of the environment. Human-to-nature relations, the study of place, and environmentalism. Offered occasionally.

**ANT 370 THE ANTHROPOLOGY OF CONTEMPORARY ISSUES**

3, 3/0

Prerequisite: ANT 101. An anthropological perspective of some of the principal dilemmas of the contemporary world, including technological, demographic, ideological, and cultural problems, which provide much of the content of our daily news and have implications for the survival of our species. Offered occasionally.

**ANT 373 "SAVING" AFRICA**

3, 3/0

Prerequisite: AAS 100, or upper division standing, or permission of instructor. Examines what Western efforts at foreign development, including contemporary globalization, look like from an African vantage. Incorporates ethnographic case studies, theoretical lenses, and practical implications for doing development work into the examination. Offered every fall semester.

**ANT 377 ANCIENT CIVILIZATION**

3, 3/0; NW14

Prerequisite: ANT 100. Examination of the nature of early civilizations; possible factors involved in both their rise and fall. Old World civilizations studied: Mesopotamia, Egypt, the Indus Valley, China, the Aegean Islands, and Europe (Greece and Italy). New World civilizations examined: Mesoamerica and the Andes region of South America. Similarities and differences considered. Offered fall even years.

**ANT 380 LANGUAGE AND CULTURE**

3, 3/0

Prerequisite: ANT 101. Concepts of language and culture as symbolic systems. Introduction to phonetics, phonemics, morphemics, syntax, and semantics from a cross-cultural and cross-lingual perspective. Exploration of the relationship between grammatical structure and modes of perception and cognition as related to world views and systems of values, with special emphasis on the Sapir-Whorf hypothesis and the work of Chomsky. Offered occasionally.

**ANT 381 RELIGION, MAGIC, AND CULTURE**

3, 3/0; NW14

Prerequisite: ANT 101. Descriptions and analysis of world religious beliefs and practices, universal phenomena with many manifestations. Examination of the place of religion and spirituality in widely diverse cultures, including discussion of magic, trance, altered states, cults, Wicca, Santeria, voodoo, and late-twentieth-century religions. Offered occasionally.

**ANT 383 ETHNOGRAPHY OF TURKEY**

3, 3/0; NW14

Prerequisites: Junior or senior standing. The transition to the Republic through the collapse of the Ottoman Empire and the nationalist movement which fought the War of Independence. Modernization, secularization, and westernization policies and the creation of a secular and laicist state. Mass rural-urban migration, struggles over Islamist movements, and nationalism through ethnographies.

**ANT 385 VISUAL ANTHROPOLOGY**

3, 3/0

Prerequisites: ANT 101 or SOC 100. How technology of the still camera transformed relationship to imagery, perception of time and movement through splitting and flattening of representations into "realistic" images. Basics of still cameras as a research tool; how to collect informants' images as data. Meaning, use of images, representations, and power of visual data. Offered fall odd years.

**ANT 388 FOLKLORE & AMERICAN ROOTS MUSIC**

3, 3/0

Prerequisites: CWP 102 and upper class standing. The richness and diversity of American roots music, with emphasis on the relationship of roots music to folklore and popular culture. Ways in which mediated a transmission and technology have contributed to the development of and dissemination of roots music. Offered occasionally.

**ANT 389 TOPICS IN ANTHROPOLOGY**

3, 3/0

Analysis of current areas of research interest in anthropology. Emphasis on using concepts and methods from the subfields of anthropology to study a specific problem or series of problems. Offered every semester.

**ANT 400 ANCIENT MATERIALS**

3, 3/0

Prerequisite: ANT 329 or ANT 312. The study of technology and production in its broadest sense. Raw materials used to create material culture as defined archaeologically, such as stone, bone, wood, clay, and metal. Datasets from ethnographic and archaeological films and reports; hands-on experimental archaeology projects. How archaeologists use material culture as evidence for past human behavior, e.g., measurement of lithic flakes, creating typologies of ceramic shards. Offered spring even years.

**ANT 405 HISTORY OF ANTHROPOLOGICAL THOUGHT**  
3, 3/0

Prerequisite: ANT 101. Important contributions in the development of anthropological theory to the present. Includes theories of Boas, Kroeber, Lévi-Strauss, Malinowski, and Tylor. Offered occasionally.

**ANT 412 SEMINAR IN CULTURAL ANTHROPOLOGY**  
3, 3/0; CT14, WIIF

Prerequisite: ANT 101. The concept of culture and ethnographic research. Value of cultural anthropology and ethnographic research and their relevance to problems faced by people today. Intellectual, social, and political trends that have shaped the development of the field of cultural anthropology. Cultural anthropological theory, research design, research practice. Offered fall only.

**ANT 415 SEMINAR IN ARCHAEOLOGY**  
3, 3/0; CT14, IM14

Prerequisites: ANT 329 or ANT 312. Value of archaeology and its relevance to the problems faced by people today. Benefits from archaeology and how they are achieved. Intellectual, social, and political trends that have shaped the development of the field of archaeology. Archaeological theory and research design in depth. Negotiating between the different stakeholders in archaeological projects. Oral and written communication of archaeological findings. Offered spring only.

**ANT 418 SEMINAR IN BIOLOGICAL ANTHROPOLOGY**  
3, 3/0; CT14, IM14, WIIF

Prerequisites: CWP 102, ANT 100; ANT 321 or ANT 323 or ANT 326. Value of biological anthropology and its relevance to the problems faced by people today. Benefits from biological anthropology and how they are achieved. Intellectual, social, and political trends that have shaped the development of the field of biological anthropology. Biological anthropology theory and research design in depth. Negotiating between the different stakeholders in biological anthropology projects. Written communication of biological anthropological findings. Offered fall only.

**ANT 488 INTERNSHIP IN ANTHROPOLOGY**  
1-12, 0/0

Supervised fieldwork in community agencies, organizations, and milieus where students develop and apply practical and anthropological knowledge and skills. Students interact in diverse cultural settings, and experience and establish connections of potential use in the job market. Preparatory conferences, ongoing seminars with the faculty supervisor, a log/journal of the field experience, and a final report. Offered spring only.

**ANT 495 SPECIAL PROJECT**  
1-3, 0/0

Special project in Anthropology.

**ANT 498 HONORS RESEARCH**  
3, 0/0

Prerequisites: 3.5 Cumulative GPA, Majors/Minors Only. Offered every semester.

**ANT 499 INDEPENDENT STUDY**  
3-9, 0/0

Offered every semester.

## Applied Mathematics (AMT)

**AMT 495 APPLIED MATHEMATICS PROJECT**  
3, 3/0; CT14, IM14, WIIF

Prerequisites: Senior status or instructor permission.

Independent research project in applied mathematics under the direction of the instructor. Composition of a written report and oral presentations of findings. Offered spring only.

Equivalent Course: MAT 495

## Arabic (ARA)

**ARA 101 BEGINNING ARABIC I**  
3, 3/0; GE14

Rudimentary fundamentals of Arabic with emphasis on the spoken and written language. Offered annually.

**ARA 102 BEGINNING ARABIC II**  
3, 3/0; GE14

Prerequisites: ARA 101. Fundamentals of Arabic with emphasis on the aural comprehension and spoken language, as well as developing the ability to read and write. Offered annually.

## Art Education (AED)

**AED 100 ESSENTIALS OF VISUAL ARTS**  
3, 2/2; AR14

Non-art majors only. The development of visual and perceptual awareness through expressive learning processes inherent in the visual arts. Experience with a variety of media that will accommodate individual interpretations of art concepts that generate the formations, judgments, and decisions of a liberally educated individual. Offered every semester.

**AED 200 FUNDAMENTALS OF ART INQUIRY**  
3, 3/0; AR14

Establishes the individual student's critical framework for looking at works of art and develops his or her knowledge and understanding of contemporary art. This is achieved by studying the application of the elements of art and principles of composition, discussions about artists and their work, and visiting art museums. Offered every semester.

**AED 295 SPECIAL PROJECT**  
1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**AED 300 FOUNDATIONS IN ART EDUCATION**  
3, 2/2; CT14, IM14, WIIF

Prerequisites: Art education major or department chair permission and successful completion of English composition/basic communication and mathematics skills competency requirements. A writing-intensive introductory course that integrates instructional planning, learning theories, and teaching practices with the visual arts in education and society. Required for education majors. Offered every semester.

**AED 301 THEORETICAL CONSTRUCTS IN ART EDUCATION**

3, 2/2; CT14, IM14, WIIF

Prerequisites: Art education major, AED 300W, or department chair permission, and one course in psychology. AED 301 is a writing intensive course that examines traditional and contemporary theories and practices relevant to current art education environments, learners, and communities and is required for art education majors. Required for art education majors. Offered every semester.

**AED 302 FUNCTIONS AND PRACTICE IN ART EDUCATION**

3, 2/2

Prerequisites: Art education major, AED 300 and AED 301. Studies of contemporary theories, functions, and practices in the visual arts including context, content, and processes necessary in the design of instructional planning, implementation, and evaluation of visual art teaching. Practicum experiences in local educational settings. Required for art education majors. Offered every semester.

**AED 303 ELEMENTARY STUDENT TEACHING IN ART 6, 0/0**

Prerequisites: Art education major, AED 302, ATS 325, satisfaction of departmental requirements, and approval of AED coordinator of student teaching. Students are assigned to a supervised elementary teaching placement for five full days a week for approximately seven consecutive weeks. Students are required to effectively demonstrate content knowledge, pedagogical preparation, instructional delivery, classroom management, knowledge of student development, collaboration with school professionals, and reflective practice. Offered every semester.

**AED 304 SECONDARY STUDENT TEACHING IN ART 6, 0/0**

Prerequisites: Art education major, AED 302, ATS 325, satisfaction of departmental requirements, and approval of AED coordinator of student teaching. Students are assigned to a supervised secondary teaching placement for five full days a week for approximately seven consecutive weeks. Students are required to effectively demonstrate content knowledge, pedagogical preparation, instructional delivery, classroom management, knowledge of student development, collaboration with school professionals, and reflective practice. Offered every semester.

**AED 310 ART MEDIA AND METHODS EXPLORATION 3, 2/2**

Prerequisites: For ATS minors: ATS 320 and one visual arts studio course, or instructor permission; for AED majors: Junior or senior status, or instructor permission. Development of practical skill and knowledge in art media, methods, and resources for educational and/or therapeutic purposes. Hands-on exploration of culturally diverse traditional and nontraditional art tools and materials that are appropriate for school and community settings; media analysis for application to promoting developmental and/or therapeutic goals. Offered occasionally.

**AED 315 ARTS IN LIVING**

3, 2/2; WC14

Contemporary and historic art forms as they apply to everyday living. Discussion and analysis of the individual significance and interrelatedness of architecture, industrial design, the graphic arts, painting, sculpture, music, and theater arts in the context of the history of Western civilization. Participation in creative activities related to the course. Offered every semester.

Equivalent Course: AAD 315

**AED 319 ART FOR ELEMENTARY AND EXCEPTIONAL EDUCATION TEACHERS**

3, 2/2

Prerequisites: education major, art therapy minor, or instructor permission. Foundational knowledge of children's development in relation to art pre-K through middle school; theories and approaches to provision of art experiences in non-arts classrooms including arts integration and cross-curricular connections; introductory skills in art media and processes. Offered annually.

**AED 365 SEMINAR IN FEMINIST ART AND CRITICISM 3, 3/0**

Prerequisites: Fulfillment of English composition/basic communication requirement and sophomore status. Women's creative achievements in visual art. Varieties of feminist visual art and criticism and their relationship to contemporary culture. Portrayal of women and the ways in which cultural definitions of gender shape artistic expression. Offered occasionally.

**AED 389 TOPIC COURSE**

0, 0/0

The course content is flexible and will provide opportunities for greater depth of knowledge in relevant topics related to the field of art education.

**AED 398 ART, SOCIETY AND NEW MEDIA TECHNOLOGIES FOR ART EDUCATORS**

3, 2/2

Prerequisites: Art education major. Critical examination and uses of new media technologies in art education within socio-cultural contexts. Pedagogical tools for teaching media technologies to children and youth (pre-K through 12th grade). Offered every semester.

**AED 400 STUDENT TEACHING SEMINAR**

3, 3/0

Relationship of art education theories to teaching practices used in the contemporary school art program. Crucial issues in art education. Problems of beginning art teachers. The value of current professional literature in the resolution of issues and problems. Required for art education majors. To be taken concurrently with or immediately following student teaching. Offered every semester.

**AED 488 INTERNSHIP**

1-12, 0/0

Prerequisites: Upper-division status and/or permission of instructor, minimum cumulative GPA of 2.5, and background coursework appropriate to the internship setting. Guided, supervised field experiences for qualified students in community-based agencies or settings. Interns apply and enhance knowledge gained through formal instruction demonstrating operational skills as practitioners in prospective specializations. Offered occasionally.



### AED 495 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Upper-division status. Project undertaken and meeting hours arranged individually with instructor. Offered occasionally.

### AED 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisites: Sophomore, junior, or senior status and minimum cumulative GPA of 2.5 (overall, previous semester, and in major courses). Studies arranged and meeting hours undertaken individually with instructor. Offered occasionally.

## Art Therapy Studies (ATS)

### ATS 320 INTRODUCTION TO ART AND THERAPY

3, 3/0

Prerequisites: PSY 101 and one additional approved human service course by advisement. Introduction to the theory and practice of art therapy. Exploration of art as a means of assessment and treatment for child, teen, and adult populations in various therapeutic settings such as hospitals, mental health clinics, nursing homes, and developmental centers. Clinical case material presentations and exploration of personal creative processes. Offered every semester.

### ATS 325 ART FOR CHILDREN WITH SPECIAL LEARNING NEEDS

3, 2/2; DI14

Prerequisites: For ATS minors: ATS 320 and one approved human service course, or instructor permission. Examining the role of art as it relates to development of children with special learning needs due to disability and/or adverse environmental circumstances. Emphasis on differentiated instruction, therapeutic teaching, roles of the art educator and the art therapist, and cultural competence. 30 hours of supervised fieldwork takes place in approved settings that serve children with special learning needs. Offered every semester.

## Arts & Letters (ALT)

### ALT 150 INTRODUCTION TO DIGITAL MEDIA

3, 3/0; AR14

Introductory survey to digital media authoring tools. Students gain basic skills for creating digital media works including manipulated imagery, video, animation, and interactive projects. Places an emphasis on learning the metaphors and concepts of digital authoring software in order to make self directed study more effective. Offered every semester.

Equivalent Course: DMA 150

### ALT 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### ALT 490 SENIOR SEMINAR

1-3, 1/0

Prerequisites: Permission of Instructor. Research methodologies and examples of research in the humanities. Students may choose to research and develop their own articulated areas of engagement in the humanities by taking HUM 495 concurrently with this culminating-experience course. Senior-level course; required for humanities majors. Offered occasionally.

### ALT 495 SPECIAL PROJECT

1-3, 0/0

### ALT 499 INDEPENDENT STUDY

3-12, 0/0

## Biology (BIO)

### BIO 100 PRINCIPLES OF BIOLOGY

3, 3/0; NS14

Non-majors only. The unifying principles of modern biology with special emphasis on cell biology, metabolism, and genetics. Offered every semester.

### BIO 101 HUMAN BIOLOGY

3, 3/0; NS14

Non-majors only. Biological principles of the human condition with particular emphasis on physiology of normal body function with regard to nutrition, disease, psychoactive agents, reproduction and contraception, and aging. Contemporary health-related issues. Offered every semester.

### BIO 104 ENVIRONMENTAL BIOLOGY

3, 3/0; NS14

Non-majors only. Biological aspects of global environmental problems. Principles of ecology. Offered every semester.

### BIO 111 FOUNDATIONS OF BIOLOGY

3, 3/0

A molecular and cellular approach to understanding human biology. Emphasis on biomolecules, cell structure and function, cell division, genetics, gene expression, and biotechnology as they pertain to understanding human biology and human health. Offered every semester.

### BIO 189 TOPIC COURSE

1, 0/3

Current topics in Biology. Offered occasionally.

### BIO 210 MICROBIOLOGY

3, 2/2

Prerequisite: BIO 100 or BIO 111. Non-majors only. Morphology and physiology of bacteria. General application to household science, sanitation, hygiene, and infectious disease. Offered fall only.

### BIO 211 INTRODUCTION TO CELL BIOLOGY AND GENETICS

4, 3/3

Prerequisite: BIO 111 with a grade of C or better or CHE 112. The chemicals of life and their hierarchical organization in cells. Cell organelles. Metabolism and energy transformations. Cell division, gene expression, Mendelian and population genetics. Biotechnology in human health, nutrition and society. Offered every semester.

### BIO 213 INTRODUCTION TO ECOLOGY, EVOLUTION, AND BEHAVIOR

4, 3/3

Prerequisite: BIO 111, C or better. Population, community and ecosystem ecology; human impact on the environment. The Darwinian revolution, evolution of populations and the formation of new species. Principles of animal behavior. Offered every semester.

### BIO 295 RESEARCH EXPERIENCE IN BIOLOGY

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### BIO 300 BIOSTATISTICS

4, 3/3

Prerequisites: Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213; Upper-division status. Statistical inference as a guide to decision making during biological investigations. Elements of experimental design. Exploratory data analysis. Tabular, graphical, and written interpretation of results. Application of inferential techniques including confidence intervals, t-tests, analysis of variance, chi-square analysis of contingency tables, and linear regression and correlation. Offered spring only.

### BIO 301 CELL PHYSIOLOGY

4, 3/3

Prerequisites: BIO 111 (with a grade of C or better), BIO 211, BIO 213, CHE 111/113 and CHE 112/114. Basic concepts in cell physiology with an emphasis on transport across cell membranes, cell communication, and excitability of nerve and muscle cells. Labs introduce students to a variety of techniques employed to study cell physiology including biochemistry, cellular electrophysiology, and fluorescence microscopy. Offered alternate years.

### BIO 303 GENETICS

4, 3/3

Prerequisites: BIO 111 (with a grade of C or better), BIO 211, BIO 213, CHE 111/113 and CHE 112/114. Principles of Mendelian, molecular and population genetics. Classic and molecular experimental methods for studying of gene structure, transmission, expression. Offered every fall semester.

### BIO 305 MOLECULAR BIOLOGY

4, 3/1

Prerequisites: BIO 111 (grade of C or better), BIO 211, BIO 213, CHE 111/113, CHE112/114 and CHE 201. Structure, organization, and function in living matter at the molecular level. Offered alternate years.

### BIO 308 SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY

3, 3/0

Prerequisites: BIO 100 or BIO 101 or BIO 111, and upper-division status. Physiology and pertinent anatomy of the major organ systems of the human body including consideration of clinical health and disease. Not applicable as a biology elective for students pursuing a B.A. in biology. Does not serve as a prerequisite for most postgraduate medical or health programs. Offered each fall semester.

### BIO 309 LABORATORY SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY

1, 0/3

Prerequisites: BIO 100 or or BIO 101 or BIO 111 and upper-division status. Human anatomy and functions of the major anatomical systems using the techniques of rigorous animal dissection (e.g., cats and sheep organs) and physiological experiments. Not applicable as a biology elective for students pursuing a B.A. in biology. Does not serve as a prerequisite for most postgraduate medical or health programs. Offered occasionally.

### BIO 311 HUMAN ANATOMY AND PHYSIOLOGY I

4, 3/3

Prerequisites: BIO 100 or BIO 101 or BIO 111 with a grade of C or higher. Study of the basic physiology of cells, tissues and the following human body systems: cardiovascular, respiratory, digestive, urinary and reproductive. Offered fall semester only.

### BIO 312 HUMAN ANATOMY AND PHYSIOLOGY II

4, 3/3

Prerequisite: BIO 311. A continuation of BIO 311. Advanced study of the endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. Offered spring semester only.

### BIO 314 ADVANCED CELL BIOLOGY

4, 3/3; CT14, IM14, WIIF

Prerequisites: BIO 111 (grade of C or better), BIO 211, BIO 213, CHE 111/113, CHE112/114 and CHE 201.

Current models of eukaryotic cell structure and function. Topics include: membrane transport, electrical properties of membranes, protein targeting, membrane trafficking, cytoskeleton, cell signaling, control of the cell cycle and cancer. Offered every spring semester.

### BIO 315 ECOLOGY

4, 3/3; WIIF

Prerequisites: Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213. Ecosystems, biotic communities, interspecific and intraspecific relationships, biogeochemical cycles, energy flow, population ecology, introduction to analysis of community composition, effects of humanity in modifying natural environments. Several half-day or all-day field trips may be required. Offered fall only.

### BIO 316 GENERAL MICROBIOLOGY

4, 3/3

Prerequisites: BIO 211, BIO 213 and CHE 111/113. Microorganisms and techniques of observing their morphology, growth characteristics, and distribution. Microbial molecular biology and genetics. Relevance of microorganisms to everyday human activities. Offered every spring.

### BIO 321 COMPARATIVE VERTEBRATE ANATOMY

4, 3/3

Prerequisites: Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213. Function, evolution, and development of the diversity of vertebrate structure. Rigorous dissections of representative vertebrate morphologies (e.g., preserved sharks, amphibians, cats, etc.). Offered occasionally.

### BIO 322 HUMAN HEREDITY

3, 3/0

Prerequisites: BIO 100 and upper-division status. Non-majors only. Human inheritance and the social implications of genetics to modern society.

### BIO 324 BIOLOGY OF HUMAN REPRODUCTION

3, 3/0

Prerequisites: BIO 100 and upper-division status. Non-majors only. Anatomy and physiology of the human reproductive system, development of the human embryo, and the processes of birth and lactation.

**BIO 325 ICHTHYOLOGY**

4, 3/3

Prerequisites: Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213. Study of the biology of fishes: structure and function (anatomy and physiology), systematics, evolution, diversity, zoogeography, and ecology. Offered alternate years.

**BIO 333 BIOLOGICAL FORM, FUNCTION AND DIVERSITY**

4, 3/3

Prerequisites: Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213. The origin and history of life on Earth and its diversification with an emphasis on Eukarya. Survey of the morphology, physiology, development, reproduction, and life cycles of protists, plants, fungi, and animals. Offered every spring semester.

**BIO 350 GENES IN POPULATIONS**

4, 3/3

Prerequisites: BIO 111 (with a grade of C or better), BIO 211, BIO 213 and CHE 111/113; Upper-division status. Processes that cause populations to change over time; mutation, natural selection, genetic drift, and gene flow. Application of population genetic principles to problems in conservation biology and forensic genetic analysis. Offered occasionally.

**BIO 361 BIOLOGY SEMINAR**

1, 0/0

Participation in weekly seminars on topics ranging from ecology and evolution to biomedical sciences and cell biology.

**BIO 362 BIOLOGY SEMINAR**

1, 0/0

Participation in weekly seminars on topics ranging from ecology and evolution to biomedical sciences and cell biology.

**BIO 389 TOPIC COURSE**

1-6, 1/0

Current advanced topics in Biology. Offered occasionally.

**BIO 402 COMPARATIVE ANIMAL PHYSIOLOGY**

4, 3/3

Prerequisites: BIO 111 (with a grade of C or better), BIO 211, BIO 213 and BIO 333. Study of hormonal control, neural processing, sensory mechanisms, circulation, gas exchange, digestion, muscles, energetics, and thermoregulation using vertebrate and invertebrate examples. Offered alternate years.

**BIO 405 EVOLUTION**

3, 3/0; CT14, IM14, WIIF

Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213; Upper-division status. The pattern of evolution including fossil, biogeographic, and genomic evidence. Phylogenies; processes contributing to changing allele frequencies in populations through time including selection, drift, mutation, migration, and nonrandom mating; models of speciation. Mendelian framework for quantitative genetics. Sexual selection, inclusive fitness, altruism and the evolution of eusociality. Mass extinction and recent discoveries related to human origins. Offered at least once a year.

**BIO 408 PLANT PHYSIOLOGY**

4, 3/3

Prerequisites: Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213. Plant physiological processes including photosynthesis, respiration, transpiration, translocation, photomorphogenesis and tropisms; plant water potential, effects of hormones, soil nutrients, environmental stress; plant anatomy in relation to physiological function; use of instrumentation to measure physiological performance. Offered alternate years.

**BIO 412 EMBRYOLOGY**

4, 3/3

Prerequisites: BIO 211, BIO 333, and CHE 201/203 or BIO 305. Principles and processes of a chordate embryology with emphasis on cellular and molecular mechanisms of development. Offered occasionally.

**BIO 414 MAMMALOLOGY**

4, 3/1

Prerequisites: Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213. Introduction to the study of mammals: including classification, distribution, ecology, and behavior as they relate to life histories of mammals; identification of mammals in the field and laboratory; and field methods of mammalian studies. Offered occasionally.

**BIO 418 LIMNOLOGY**

4, 3/3

Prerequisites: BIO 111 (with a grade of C or better), BIO 211, BIO 213 and CHE 111/113; Upper-division status. Physical, chemical, and biological factors that influence freshwater life and the ecological interactions in freshwater communities. Lectures, demonstrations, and field trips. Offered alternate years.

**BIO 421 INVERTEBRATE STRUCTURE AND FUNCTION**

3, 2/2

Prerequisites: BIO 111 (with a grade of C or better), BIO 211, BIO 213 and BIO 333. Functional approach to the morphology, physiology, adaptation, ecology, reproduction, and evolution of invertebrates. Offered occasionally.

**BIO 428 VERTEBRATE STRUCTURE AND FUNCTION**

4, 3/3

Prerequisites: BIO 212 and BIO 213. Comparative study of vertebrates with emphasis on their anatomy, adaptations, ecology, and phylogenetic relationships. Offered occasionally.

**BIO 429 FISHERIES BIOLOGY**

4, 3/3

Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213; Upper-division status. Ecology and management of fish populations. Sampling techniques and fisheries-management techniques (including stocking, hatcheries, and aquaculture programs). Feeding, behavior, and life history of fishes. Offered alternate years.

**BIO 430 STREAM ECOLOGY**

4, 3/3; CT14, IM14, WIIF

Prerequisites: BIO 111 (with a grade of C or better), BIO 211, BIO 213 and BIO 333; Upper-division status. Biological, chemical, geomorphic, and hydrologic features affecting the ecology of flowing water systems. Emphasis on freshwater invertebrate life histories, adaptations, and community structure in shallow streams. Offered alternate years.

#### BIO 431 AQUATIC ENTOMOLOGY

4, 3/1

Prerequisites: BIO 212 and BIO 213. Survey of the classification, taxonomy, and identification of aquatic insects. Emphasis on aquatic insects of northeastern North America, their life histories, adaptations, and community structure in streams and wetlands. Offered occasionally.

#### BIO 433 ORNITHOLOGY

4, 3/3

Prerequisites: Prerequisites: BIO 111 (with a grade of C or Better), BIO 211 and BIO 213. Introduction to the study of birds including a survey of the diversity of avian behaviors, life history strategies, mating systems, ecology, and physiological-morphological specializations of flight. Offered occasionally.

#### BIO 434 EXPERIMENTAL BEHAVIORAL ECOLOGY

4, 3/3

Prerequisites: Biology, Chemistry, & Forensic Chemistry Majors Only. BIO211 & BIO213. Exploration of fundamental concepts in the evolution of behavior. Topics include communication, parental care, sexual selection, foraging theory, and kin selection. Development, phylogenetics, and genetics of behavior will be discussed. Offered occasionally.

#### BIO 435 CANCER BIOLOGY

4, 3/3

Prerequisites: BIO 211, BIO 213, CHE 112/114. Exploration of the fundamental concepts and mechanisms in cancer biology. Topics include the nature of cancer, tumor viruses, oncogenes, growth factors, signal transduction, tumor suppressor genes, cell cycle control, apoptosis, multistep tumorigenesis, and genomic integrity. This course will also cover the basic principles of cancer prevention, diagnosis, and treatment. Offered occasionally.

#### BIO 440 APPLICATIONS IN BIOTECHNOLOGY

3, 3/0; CT14, IM14, WIIF

Prerequisites: BIO 111 (with a grade of C or better), BIO 211, BIO 213, CHE 111/113 and CHE 112/114. Case-study exploration of molecular, cellular and immunological techniques used to address industrial, agricultural, environmental and human health issues. Emphasis on underlying biological principles, the biotechnology employed and evidence of effectiveness. Safety, policy issues, bioethical considerations and public perception will be discussed. Offered every fall semester.

#### BIO 450 RECOMBINANT DNA TECHNOLOGY

4, 2/4

Prerequisites: BIO 111 (grade of C or better), BIO 211, BIO 213, BIO 303, BIO 305, CHE 111/113, CHE112/114 and CHE 201. Extensive hands-on experience using the techniques of biotechnology. Emphasis on techniques involving the construction of recombinant DNA molecules and their analysis. Offered occasionally.

#### BIO 488 BIOLOGY INTERNSHIP

1-15, 0/0

Prerequisites: Minimum cumulative and biology GPA of 2.5; BIO 111, BIO 211, BIO 213, BIO 333; faculty adviser and department chair permission. An opportunity to apply learned principles and methodologies in a workplace setting. Offered every semester.

#### BIO 495 SPECIAL PROJECT

1-3, 0/0

Prerequisites: Faculty adviser and department chair permission. Offered every semester.

#### BIO 498 HONORS RESEARCH

1,3, 0/0

Prerequisites: BIO 111, BIO 211, BIO 213, BIO 333; completion of 70 or more credit hours; minimum GPA of 3.4 in biology major and minimum cumulative GPA of 3.0. Independent investigation of an original scientific problem, completed over two semesters with transition to the second semester dependent upon satisfactory completion of research proposal during the first semester. Submission of a final written report of investigation and an oral presentation of work at a scientific meeting. Offered every semester.

#### BIO 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisites: Faculty adviser and department chair permission. Offered every semester.

## Business & Marketing Education (BME)

#### BME 301 PRINCIPLES OF BUSINESS/MARKETING AND TECHNOLOGY EDUCATION

3, 3/0; WIIF

Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program. Offered every semester.

Equivalent Courses: CTE 301, FCS 301

#### BME 302 CURRICULUM AND EVALUATION IN BUSINESS/MARKETING AND TECHNOLOGY EDUCATION

3, 3/0; WIIF

Introduction to the curriculum and evaluation in business/marketing and technology education. State curriculum and standards, lesson planning, student learning, and curriculum evaluation. Offered every semester.

Equivalent Courses: CTE 302, FCS 302

#### BME 303 INSTRUCTIONAL STRATEGIES IN BUSINESS AND MARKETING

3, 3/0

Instructional strategies dealing with classroom management, classroom environment, and educational technologies. 100 hours of field experience prior to student teaching required. Offered every semester.

Equivalent Course: FCS 303

#### BME 411 APPLIED TEACHING METHODS IN BUSINESS/MARKETING

3, 3/0

Prerequisites: BME/CTE/FCS 301 and BME/CTE/FCS 302. Basic principles and methods of teaching business and marketing subjects. Prepares the student to effectively teach subjects in this area. Offered every semester.

Equivalent Courses: CTE 404, FCS 404

**BME 415 STUDENT TEACHING IN BUSINESS EDUCATION**

6, 0/0; CT14, IM14

Prerequisites: Senior standing; completion of business core area and BME 411; 2.5 cumulative average in major subject area; 2.0 cumulative average in total program; C or better in CWP 101 and CWP 101; satisfactory completion of (or exemption from) prerequisite EXE 100 Student Speech Clinic if referred. Full-time teaching in a public school for one semester under the supervision of a master teacher and a college supervisor. Offered every semester.

Equivalent Course: FCS 415

**BME 416 STUDENT TEACHING IN BUSINESS EDUCATION**

6, 0/0; CT14, IM14

Prerequisites: Senior standing; completion of business core area and BME 411; 2.5 cumulative average in major subject area; 2.0 cumulative average in total program; C or better in CWP 101 and CWP 101; satisfactory completion of (or exemption from) prerequisite EXE 100 Student Speech Clinic if referred. Full-time teaching in a public school for one semester under the supervision of a master teacher and a college supervisor. Offered every semester.

Equivalent Course: FCS 416

**BME 495 SPECIAL PROJECT**

3, 0/0

**BME 499 INDEPENDENT STUDY**

3-12, 0/0

Offered every semester.

## **Business (BUS)**

**BUS 116 INTRODUCTION TO BUSINESS**

3, 3/0

Modern business functions. Economic and social aspects, organization and management, operations, marketing functions, management control and decision making, financial risk and management, and career information for a changing business climate. Offered every semester.

**BUS 117 INTRODUCTION TO RETAILING**

3, 3/0

Role and function of retailing as a channel of distribution, the relationship and responsibilities to the producer and consumer. Offered occasionally.

**BUS 189 TOPICS COURSE**

1-3, 0/0

Offered occasionally.

**BUS 201 FOUNDATIONS OF LEADERSHIP**

3, 3/0

History of leadership and leadership as an ongoing process of challenge, growth, and development. Students learn the foundational concepts of leadership, assess their own leadership styles, and discuss issues relevant to leadership. Provides opportunities for the practice of leadership skills in campus and community organizations. Offered every semester.

Equivalent Courses: CRS 201, UNC 201

**BUS 212 INTRODUCTION TO ACCOUNTING**

3, 3/0

Introduction to the accounting cycle and double-entry bookkeeping. Students analyze business transactions, apply rules of debits and credits, and prepare income statements and balance sheets. Offered every semester.

**BUS 300 INTERNATIONAL BUSINESS**

3, 3/0

Prerequisite: Business major. Concepts, theories, and practices of international business and the multinational corporation. Global nature of the world economy. Environmental constraints, regional issues, and functional business operations. Offered every semester.

**BUS 305 WORKFORCE DIVERSITY IN THE TWENTY-FIRST CENTURY**

3, 3/0; DI14

Prerequisite: Junior/senior status. Workforce diversity as the positive acknowledgement of the way in which people are different. Recognizes gender, age, religion, and cultural background, and work and life responsibilities. Teamwork develops an understanding and awareness of cultural diversification in the workforce. Offered every semester.

**BUS 312 FINANCIAL ACCOUNTING**

3, 3/0

Introduction to the fundamental accounting theories and methods underlying financial statements and the use of accounting information by decision makers. Offered every semester.

**BUS 313 MANAGERIAL ACCOUNTING**

3, 3/0

Prerequisite: BUS 312. Managerial accounting focuses on accumulating, processing, reporting, and interpreting decision-relevant financial information which are used in managing an organization. Topics include cash flow analysis, time value of money, cost behavior, budgeting, and elements of cost accounting. Offered every semester.

**BUS 320 PRINCIPLES OF MARKETING**

3, 3/0

Survey course on concepts, policies, and marketing goods and services. Includes consumer behavior, target markets, marketing programs and ethics. Offered every semester.

**BUS 321 MARKETING ON THE INTERNET**

3, 3/0

Prerequisite: BUS 320, business major. Foundations and rationale for Internet marketing. Marketing objectives and strategies for Web sites, online promotion, and advertising. Web site design tools, research on customers, and legal and ethical issues. Students evaluate Web sites and design their own online marketing sites. Offered spring only.

**BUS 323 SALES METHODS AND TECHNIQUES**

3, 3/0

Prerequisite: BUS 320, business major. Foundation in sales principles and techniques. Emphasis on the personal development of sales skills, analysis of characteristics, behavior, and motivation of buyers, and the use of the selling process to achieve customer satisfaction. Offered fall only.

**BUS 324 BUSINESS COMMUNICATION**

3, 3/0; WIIF

Prerequisite: BUS 360, business major. Fundamental principles and tools for effective communication within organizations. Experiential exercises will be used to assist in developing written and oral communication skills. Offered every semester.

**BUS 325 HUMAN RESOURCE MANAGEMENT**

3, 3/0

Prerequisite: Business major. Theoretical and practical knowledge in the major areas of human resource management including selecting, training, developing, evaluating and compensating employees. Offered every semester.

**BUS 327 ADVERTISING CONCEPTS AND PRACTICES**

3, 3/0

Prerequisite: BUS 320, business major. Introduction to the field of advertising, including discussion of research, target marketing media selection and evaluation, goal setting and budgeting, and the development of advertising campaigns. Offered every semester.

**BUS 329 SALES MANAGEMENT**

3, 3/0

Prerequisite: BUS 320, business major. Sales management function within modern organizations including sales-force operation, sales strategies, leadership, ethics, recruitment, selection, and motivation of staff. Sales management as a vital business function within the context of a global economy. Offered spring only.

**BUS 330 MARKETING MANAGEMENT**

3, 3/0

Prerequisite: BUS 320, business major. Marketing-oriented thinking in today's competitive environment; analyzing needs, identifying opportunities, and bringing valued offers to targeted customer groups; analyzing, planning, implementing, and controlling marketing strategies. Includes recent themes: customer relationship management, technology/Internet revolution, brand building, and global marketing from a marketing manager's perspective. Offered every semester.

**BUS 334 BUSINESS LAW I**

3, 3/0

Legal principles applicable to business enterprises and operations including advisory and judicial systems; contracts and sales; commercial paper, secured transactions, property, torts, and appropriate sections of the Uniform Commercial Code. Offered every semester.

**BUS 335 BUSINESS LAW II**

3, 3/0

Prerequisite: BUS 334, business major. The nature of real and personal property; trusts, wills and estates; creditor's rights and secured transactions; government regulation of business; administrative law; insurance, and evidence. Topics may include taxation of income, arbitration in resolving contract disputes, and Rule 10 b-5 of the Securities and Exchange Commission. Offered every semester.

**BUS 340 SECURITIES**

3, 3/0

Prerequisite: Junior/senior status. Securities and securities markets. Emphasis on investment markets and their interaction with the macroeconomics system. Offered occasionally.

**BUS 341 COMMODITIES**

3, 3/0

Prerequisite: Junior/senior status. Commodities futures trading. Special emphasis on terminology, hedging procedures, trading procedures, and price-making influences.

**BUS 347 RETAIL MANAGEMENT**

3, 3/0

Prerequisite: BUS 320, business major. Introduction to trends and developments in retailing and to the operation of retail organizations. Strategic planning, financial control, merchandising, site selection, store organization, pricing and promotion. Offered every semester.

**BUS 348 ELECTRONIC COMMERCE**

3, 3/0

Prerequisite: BUS 320, business major. Introduction to the principles and practices of electronic commerce including EDI, electronic payment, online promotion, electronic shopping and distribution, online stores and malls, security, intellectual property rights, and legal issues. Select tools and skills required for navigating the Internet and creating a Web site. Offered fall only.

**BUS 350 CURRENT PRACTICES IN BUSINESS TECHNOLOGY**

3, 3/0

Prerequisite: BUS 360, business major. Instruction in the use of information technology and business computer applications including spreadsheets, graphic presentations, networking, database management, word processing and office automation. Emphasis on using computers and computer-based information in the decision-making process. Offered every semester.

**BUS 360 PRINCIPLES OF MANAGEMENT**

3, 3/0

Introduction to the basic functions of management, including strategic and operational planning, developing organizational structure and behavior, leadership, motivation, and effective control systems. Offered every semester.

**BUS 362 BUSINESS PROJECT MANAGEMENT**

3, 3/0

Prerequisite: BUS 360. An understanding of the foundational knowledge, skills, tools and techniques of project management integral to the success of a project, using the Knowledge Areas and Process Groups related to project management methodologies. An examination and application of current practices in project management as applied to business-related projects. Offered spring semester only.

**BUS 363 BUSINESS IN THE WESTERN HEMISPHERE**

3, 3/0

Prerequisite: BUS 360, business major. Survey of business practices in the Western Hemisphere including economic, cultural and political differences among countries, regional trade agreements, and trade practices. Select countries are compared in terms of management, marketing and human resources practices, organizational communications, and business ethics. Offered fall only.

### **BUS 364 SUPPLY CHAIN MANAGEMENT**

3, 3/0

Prerequisites: MAT 311 or ECO 305 (or equivalent); BUS 360. Design and management of supply chains for competing effectively in global markets. The management of specific functions such as procurement, manufacturing, logistics, and inter-organizational information and coordination. Topics include qualitative and quantitative techniques for optimum configuration of supply chains, including design configuration, postponement, mass customization, location, vendor-managed-inventory, supply networks, and strategic alliances.

### **BUS 365 ENTREPRENEURSHIP**

3, 3/0

Prerequisite: BUS 360, business major. The functions performed by entrepreneurs such as searching for opportunities and gathering resources to convert into growth-oriented, profitable ventures. Students conduct research, identify opportunities, and prepare a business plan. Offered every semester.

### **BUS 366 MANAGEMENT INFORMATION SYSTEMS**

3, 3/0

Prerequisites: CIS 101 and BUS 360, business major. A balanced framework for the successful management of today's increasingly complex array of information. Tools for dealing with and improving the management of information in a variety of business settings using application software such as Microsoft Office. Offered every semester.

### **BUS 367 STRATEGIC MANAGEMENT OF INNOVATION AND TECHNOLOGY**

3, 3/0

Prerequisite: BUS 360, business major. Strategic management in newly created and established firms from the perspectives of various functional groups (e.g., research and development, manufacturing, management, and marketing) and levels of general management (business, project, corporate) involved in the process of technological innovation. Offered occasionally.

### **BUS 368 SPORTS MANAGEMENT AND MARKETING**

3, 3/0

Prerequisite: BUS 360, business major. The administration, coordination, and evaluation of event-related sports. Open to business and non-business majors. Provides professional and general education base for careers in sports and recreational management and marketing. Offered every semester.

### **BUS 369 ORGANIZATIONAL CHANGE AND DEVELOPMENT**

3, 3/0

Prerequisite: BUS 360, business major. The process of organizational change; conceptual foundation, principles, and practical applications for use in the design and development of organizations to improve organizational effectiveness in dynamic and competitive environments.

### **BUS 378 BUSINESS PROFESSIONAL PRACTICE**

1-12, 3/0

Business majors may elect to take up to 12 credit hours of field experience. Introductory, part-time experience usually generates 3 credit hours, whereas a full-time culminating experience could generate as many as 12 credit hours. Credit, training, and evaluation criteria to be arranged by business instructor in charge of field experience. Offered every semester.

### **BUS 389 CONTROLLING FINANCIAL AFFAIRS**

3, 0/0

Upper-level topics course in Business. Offered occasionally.

### **BUS 403 CONSUMER BEHAVIOR**

3, 3/0

Prerequisite: BUS 320, business major. Psychological, sociological, and cultural factors that influence consumer behavior and decision making. Emphasis on the importance of understanding consumer behavior in formulating marketing programs and marketing strategies. Offered every semester.

### **BUS 404 MARKETING RESEARCH**

3, 3/0

Prerequisite: BUS 320, business major. Research methods and techniques used to collect data and provide information for solving marketing problems, design, sampling, data collection, analysis and interpretation, and report preparation. Orientation from the perspective of users of marketing research. Offered every semester.

### **BUS 410 ACCOUNTING ANALYSIS**

3, 3/0

Prerequisites: BUS 313 and junior/senior status. Management fundamentals and economic concepts of the firm. Application of accounting concepts and techniques in preparing, presenting, and interpreting the accounting information used by management in planning and controlling operations. Offered occasionally.

### **BUS 412 INCOME TAXATION**

3, 3/0

Fundamentals of federal income taxation. Course focuses on concepts related to gross income, deductions, credits, and property transactions. Offered spring only.

### **BUS 413 TAXATION OF CORPORATIONS**

3, 3/0

Prerequisite: Junior/senior status. Federal taxation of corporate income and shareholders; includes organizing and capitalizing the corporate entity, determining tax liability, dividends and other non-liquidating distributions, stock redemptions, liquidations, and other corporate entities, such as S corporations and LLCs. Offered occasionally.

### **BUS 417 INTERNATIONAL ACCOUNTING**

3, 3/0

Prerequisites: Business major and completion of BUS 312, BUS 313, and ECO 314. Designed to familiarize students with the accounting issues arising from national differences in accounting systems, standards, terminology, disclosure patterns, tax policies, fluctuations in exchange and inflation rates, and managerial options for dealing with these issues. Offered spring only.

### **BUS 420 INTERNATIONAL MARKETING**

3, 3/0

Prerequisite: BUS 320, business major. Concepts, theory, and practice of international marketing. Competitive global environment, trade issues, cultural factors, and global marketing strategy formulation and implementation. Offered every semester.

**BUS 424 INTERNATIONAL BUSINESS COMMUNICATION**

3, 3/0

Prerequisite: BUS 324, business major. Preparation for the complex communication tasks encountered in the world of international business. Cultural aspects that influence communication including language, environment and technology, social organization, contexting, authority conception, nonverbal communication, and temporal conception. Emphasis on understanding social and cultural differences and developing effective communication strategies for the global corporation. Offered fall only.

**BUS 425 INTERNATIONAL AND CROSS-CULTURAL TRAINING**

3, 3/0

Prerequisite: Business major. Analysis, selection, design, implementation, and evaluation of training programs to increase functional capabilities in international and multicultural environments. Emphasis on communication strategies, human response to cultural settings, and procedures for increasing performance. Offered spring only.

**BUS 426 CREATIVE OPPORTUNITIES IN LEADERSHIP AND MANAGEMENT PRACTICES**

3, 3/0

Prerequisites: BUS 360 and BUS 325, junior/senior status. Detailed analysis of creative problem-solving techniques. Case problems and business projects that reinforce management functions and approaches. Places students in the role of an individual manager and team members in practical application of management theory. Offered occasionally.

**BUS 428 ADVANCED MERCHANDISING**

3, 3/0

Prerequisite: BUS 326 or permission of instructor. Techniques of merchandising fashion apparel, accessories, housewares, major and minor appliances, and furniture. Major approaches used in planning and analyzing sales and stock records, and the use of operating and financial data to make profitable merchandising decisions as well as market planning. Offered occasionally.

**BUS 430 STRATEGIC MANAGEMENT**

3, 3/0; CT14, IM14, WIIF

Prerequisite: Business major; senior status. Methods and techniques commonly used in strategic management decision making. Provides a background in strategic analysis and implementation of strategy in a competitive global environment. Employs competitive simulations, case studies, and applied research projects. Offered every semester.

**BUS 440 BUSINESS SENIOR SEMINAR**

3, 3/0

Prerequisite: Senior status. Designed to help business students in the transition to professional employment. Career paths and employment opportunities, employee-benefit packages and policies, Affirmative Action programs, Equal Employment Opportunity, on-the-job considerations, and related subjects. Offered every semester.

**BUS 460 OPERATIONS MANAGEMENT**

3, 3/0

Prerequisite: BUS 360. Overview of the major concepts and models in the production and operations process in manufacturing and services organizations. Includes detailed examination of production systems, materials planning, project management, and quality. Offered every semester. Equivalent Course: TEC 460

**BUS 473 INTERNATIONAL MANAGEMENT**

3, 3/0

Prerequisite: BUS 360, business major. Through an approach that blends theory and practical exercises, students will learn the fundamentals of managing in a global economy. Offered every semester.

**BUS 490 FIELD EXPERIENCE**

1-3, 0/0

Prerequisites: Junior/senior status, permission of instructor. Provides non-business students the opportunity to have experience related to their majors in public or private agencies, business organizations, or educational institutions. Offered occasionally.

**BUS 495 SPECIAL PROJECT**

1-3, 0/0

Special project in Business.

**BUS 497 SPECIAL COURSE**

0, 0/0

Special workshop in Business.

**BUS 499 INDEPENDENT STUDY**

3-12, 0/0

Independent study in Business.

## Career & Technical Education (CTE)

**CTE 100 COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL SKILLS**

15, 0/0

Credit is awarded for satisfactory completion of trade theory. Assessment of competency is based on verification of four years' employment in a trade normally taught in vocational high school programs. Graduates of community college technical programs in appropriate trades are required to verify two years' employment. The National Occupational Competency Testing Institute Examination and/or other assessment techniques may be used to determine credit of 15 semester hours. Offered every semester.

**CTE 200 COMPREHENSIVE TRADE OR TECHNICAL PERFORMANCE SKILLS**

15, 0/0

Credit is awarded for satisfactory completion of trade theory. Assessment of competency is based on verification of four years' employment in a trade normally taught in vocational high school programs. Graduates of community college technical programs in appropriate trades are required to verify two years' employment. The National Occupational Competency Testing Institute Examination and/or other assessment techniques may be used to determine credit of 15 semester hours. Offered every semester.



**CTE 301 FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION**

3, 3/0; WIIF

Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program. Offered every semester.

Equivalent Courses: BME 301, FCS 301

**CTE 302 CURRICULUM AND EVALUATION IN CAREER AND TECHNICAL EDUCATION**

3, 3/0; WIIF

Introduction to the curriculum and evaluation in business/marketing and technology education. State curriculum and standards, lesson planning, student learning, and curriculum evaluation. Offered every semester.

Equivalent Courses: BME 302, FCS 302

**CTE 303 INSTRUCTIONAL STRATEGIES IN CAREER AND TECHNICAL EDUCATION**

3, 3/0

Instructional strategies dealing with classroom management, classroom environment, and educational technologies. 100 hours of field experience prior to student teaching required. Offered every semester.

Equivalent Courses: BME 303, FCS 303

**CTE 306 CLASSROOM/LABORATORY MANAGEMENT**

3, 3/0

Organizational factors that influence the success of career-technical education teachers. Includes facility planning, redesign, and managerial phases of the career-technical teacher's responsibilities. Offered fall only.

**CTE 311 CAREER MENTORING**

3, 1/2

Prerequisite: CTE 302. Overview of career awareness for exploration, guidance, and workplace skills. Classroom pedagogy and field experiences provide mentoring opportunities with middle school and high school students or with adults seeking retraining for new career choices. Majors obtain teaching skills while providing service to the community at off-campus locations during class times. Includes demonstrations of various trade skills and career fairs. Classes meet on and off campus. Offered every semester.

**CTE 350 SCHOOL AND COMMUNITY RELATIONSHIP FIELD EXPERIENCE**

3, 1/2

Prerequisite: CTE major. Overview of school and community relations. Classroom and field experience involves students in the concepts of planning and executing a successful vocational-career promotional event. Students are placed off campus at community sites and/or middle school or high school locations. Thirty hours of internships and promotional events at off-site locations are required. Offered spring only.

**CTE 402 ASSESSMENT IN CAREER AND TECHNICAL EDUCATION**

3, 3/0

Prerequisite: CTE 302. Overview of assessment in classroom, laboratory, internship, and clinical situations. Principles of effective assessment include different approaches and methods of assessment, evaluation, and testing techniques. Addresses portfolio development, reflective journals, authentic and performance assessment, and objective testing as applicable to career and technical subjects. Offered fall only.

**CTE 404 METHODS OF TEACHING CAREER AND TECHNICAL SUBJECTS**

3, 3/0; CT14

Prerequisites: BME/CTE/FCS 301 and BME/CTE/FCS 302. Basic principles and methods of teaching business and marketing subjects. Prepares the student to effectively teach subjects in this area. Offered every semester.

Equivalent Courses: BME 411, FCS 404

**CTE 413 STUDENT TEACHING CAREER AND TECHNICAL EDUCATION**

3-6, 0/3; CT14, IM14

Prerequisites: CTE 302, CTE 404, and NOCTI Trade Examination or equivalent. Career and technical education major and completion of at least 18 credits in CTE required courses. Supervised teaching in career-technical classes in selected career-technical schools, in various types of schools and communities. Three hundred hours of practice teaching in off-site campus programs required. Conferences and reports based upon teaching assignments are required. Seminar discussions consist of professional problems of the beginning teacher. Students should be prepared to accept assignment at any school designated by the student-teacher coordinator. Student-teaching assignments are located throughout Western New York. Offered every semester.

**CTE 415 PROFESSIONAL DEVELOPMENT SEMINAR**

3, 3/0

Prerequisite: Successful completion of the basic writing requirement. Synthesis of pedagogical courses and practice-teaching experience. Analysis of problems that confront teachers. Offered fall only.

**CTE 421 CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS**

3, 3/0

Planning, coordinating, and delivering programs for individuals with special needs found in secondary and postsecondary schools, rehabilitation centers, and correctional facilities. Development of methods and techniques for teaching and assessing the work potential of individuals with special needs. Development of self-help devices/adaptive equipment. Identifying instructional resources. Offered every semester.

**CTE 435 CURRICULAR PROBLEMS OF CAREER AND TECHNICAL SCHOOLS**

3, 3/0

Prerequisites: CTE 302 and CTE 404. Basic principles and foundations of curriculum development for trade and technical programs. Technological, sociological, and educational factors that effect change in curriculum. The integral parts of a curriculum and newer concepts of curriculum programs and materials. Emphasis on curricular problems of teachers and administrators in their individual schools. Offered alternate years.

**CTE 450 ORGANIZATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS**

3, 0/0  
CTE 450

**CTE 455 OPERATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS**

3, 0/0  
CTE 455

**CTE 479 POSTSECONDARY INSTRUCTION PRACTICUM**

6, 1/5

Prerequisites: CTE 302, CTE 404, and NOCTI Trade Examination or equivalent; career and technical education major; completion of at least 18 credit hours in required CTE courses. Part- or full-time teaching assignment in a post secondary-level, career-technical education program. Develops and refines skills and understandings of the teaching-learning process as it relates to career-technical teaching, under the guidance and supervision of college faculty. S or U grade only. Offered alternate years.

**CTE 489 INDUSTRIAL TRAINER PRACTICUM**

6, 3/3

Prerequisites: CTE 302, CTE 404, and NOCTI Trade Examination or equivalent; career and technical education major; completion of at least 18 credit hours in CTE required courses; CTE program coordinator approval. Part- or full-time assignment in a business or industrial training program. Develops and refines skills and understanding of occupational training practices, under the guidance and supervision of business and industry training personnel and college faculty. S or U grade only. Offered alternate years.

**CTE 492 OCCUPATIONAL PRACTICUM**

6, 3/3

Prerequisites: CTE 100 and CTE 200 (NOCTI Trade Examination) or equivalent; career and technical education major. Advanced specialization development for students with prior occupational experience such as on-the-job upgrading, occupational workshops, and in-service institutes. May be taken for credit more than once by advisement. Offered alternate years.

**CTE 495 SPECIAL PROJECT**

3, 0/0  
Offered alternate years.

**CTE 497 SPECIAL WORKSHOP**

3, 0/0  
Offered summer only.

**CTE 499 INDEPENDENT STUDY**

3-30, 0/0  
Offered every summer.

## Chemistry (CHE)

**CHE 100 CHEMISTRY AND SOCIETY**

3, 3/0; NS14

Non-mathematical approach to the study of matter. Presentation of the fundamentals of chemistry followed by socially relevant topics such as toxic waste management, environmental pollution, space technology, agricultural chemistry, chemistry of consumer products, food processing, polymers, and plastics. Offered every semester.

**CHE 101 GENERAL CHEMISTRY I**

3, 2/3; NS14

Basic principles of chemistry, including atomic and molecular structure; gases, liquids, solids, and solutions; chemical reactions; acids and bases. Not open to chemistry majors. Offered every fall semester.

**CHE 102 GENERAL CHEMISTRY II**

3, 2/3

Prerequisite: CHE 101. Continuation of CHE 101. Includes chemical equilibria, electrochemistry, metals and nonmetals, some fundamentals of organic chemistry, polymers, fibers and plastics, natural products, and some fundamentals of biochemistry. Not open to chemistry majors. Offered spring only.

**CHE 110 INTRODUCTORY CHEMISTRY**

3, 3/0

Preparation for college-level chemistry with an emphasis on mathematical methods used in chemistry. Introduction to atomic structure, atomic and formula mass, chemical equations, stoichiometry, solution concentration, acid-base chemistry. Mathematical methods include: the metric system, significant figures, dimensional analysis, conversion factors, word problems, quadratic equations, logarithms. Recommended for students who have not taken high school chemistry or need to develop the math skills required for CHE 101 and CHE 111. Course offered every semester.

**CHE 111 FUNDAMENTALS OF CHEMISTRY I**

3, 3/0; NS14

Prerequisites: CHE 110 with a minimum grade of C or MAT 114 or a higher level math with a minimum grade of C, SAT math with a minimum of 480, or ACT composite score with a minimum of 18; Corequisite: CHE 113. Fundamental principles of chemistry covering the nature, structure and properties of the atom, chemical bonding, geometry of molecules, the periodic table, gases, stoichiometry, chemical reactions, thermochemistry, and solution chemistry. Offered every semester.

**CHE 112 FUNDAMENTALS OF CHEMISTRY II**

3, 3/0

Prerequisites: CHE 111. Co-requisite CHE 112. Continuation of Fundamentals of Chemistry I. Liquids and solids, phase transitions, mixtures, colligative properties, chemical kinetics, chemical equilibria, chemical thermodynamics, electrochemistry, general properties of elements, and complex ion formation. Offered every semester.

**CHE 113 LABORATORY FOR FUNDAMENTALS OF CHEMISTRY I**

1, 0/3

Corequisites: CHE 111. Laboratory-based exploration of the basic chemical concepts taught in Fundamentals of Chemistry I (CHE 111). Experiments exploring the basic principles of chemical bonding, geometry of molecules, gases, stoichiometry, solution chemistry, and enthalpy. Lab safety, use of graphing software, and introduction to basic laboratory equipment. Offered every semester.

**CHE 114 LABORATORY FOR FUNDAMENTALS OF CHEMISTRY II**

1, 0/3

Prerequisites: CHE 111 and CHE 113; co-requisite: CHE 112. Laboratory-based exploration of the basic chemical concepts taught in Fundamentals of Chemistry II (CHE 112). Experiments exploring the phases of matter, physical properties of solutions, kinetics, thermodynamics, equilibrium, redox reactions, and basic electrochemistry. Safe laboratory practices and basic laboratory skills, introduction to basic spectrophotometry and the use of pH meters.

**CHE 189 TOPIC COURSE**

1-3, 0/0

Current topics in Chemistry. Offered occasionally.

**CHE 201 ORGANIC CHEMISTRY I**

3, 3/0

Prerequisite: CHE 112. Chemistry of organic compounds. Chemical bonding and structures of organic molecules. Reactivity and stability of organic compounds. Organic reaction mechanisms. Elementary syntheses of organic molecules. Offered every semester.

**CHE 202 ORGANIC CHEMISTRY II**

3, 3/0

Prerequisite: CHE 201. Continuation of CHE 201. Reactions and mechanisms of organic functional groups, such as alcohols, ethers, aldehydes, ketones, carboxylic acids, acid derivatives, and aromatic compounds. Identifications of organic compounds using spectroscopic methods (UV, IR, NMR, and MS). Organic reaction mechanisms to predict reaction outcomes. Syntheses of organic molecules.

**CHE 203 ORGANIC CHEMISTRY LABORATORY I**

1, 0/3

Prerequisite: CHE 112 and CHE 114; Prerequisite or Concurrent registration: CHE 201. Laboratory techniques in organic chemistry including distillation, crystallization, extraction, sublimation, and chromatography are learned by application to the synthesis and purification of organic compounds. Experiments chosen from a variety of possible topics such as isolation of natural products, separation of mixtures, and synthesis. Offered every semester.

**CHE 204 ORGANIC CHEMISTRY LABORATORY II**

1, 0/3

Prerequisite: CHE 203. Prerequisite or concurrent registration: CHE 202. Continuation of CHE 203. Synthesis, isolation, purification, and identification of organic compounds with emphasis placed on spectroscopic methods of structure determination. Experiments chosen from a variety of possible topics such as multistep synthesis, mechanistic studies, and qualitative organic analysis. Offered every semester.

**CHE 295 INTRODUCTORY RESEARCH IN CHEMISTRY**

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**CHE 300 MEDICATIONS: CHEMICALS FOR YOUR HEALTH**

3, 3/0

Prerequisite: CHE 100 or CHE 101 or CHE 111. The structure, uses, and physiological effects of common medications, at a level appropriate for the nonscience major. Emphasis on consumer issues related to safe and effective use of prescription and nonprescription drugs; drug development and approval; alternative medicines, vitamins, generic drugs, and consumer guides for using drugs wisely. Not open to chemistry or forensic chemistry majors. Offered occasionally.

**CHE 301 ANALYTICAL CHEMISTRY**

4, 2/6

Prerequisites: CHE 112 and CHE 114. Fundamental principles and laboratory applications of analytical chemistry. Elementary statistics, chemical equilibrium, acids and bases, redox reactions, gravimetry, separations, spectrophotometry, and basic electrochemistry. Laboratory experiences including acquisition of hands-on analytical laboratory skills and guided experiments selected from course topics. Offered every semester.

**CHE 305 PHYSICAL CHEMISTRY I**

3, 3/0

Prerequisites: CHE 202, CHE 301, PHY 112, and, MAT 263 (or concurrently), or, instructor's permission. A study of the fundamental concepts in thermodynamics and equilibria of matter and polymer solutions. Topics include: zero, first, second and third laws of thermodynamics, thermochemistry, chemical equilibrium, phase diagrams and the equilibrium of phase change, ideal vs. real solutions, introduction to polymer science, thermodynamic analysis of polymeric solutions. Offered annually in the fall semester.

**CHE 306 PHYSICAL CHEMISTRY II**

3, 3/0

Prerequisite: CHE 305, and MAT 263. The second semester of a two-semester sequence in physical chemistry. Topics include quantum chemistry, atomic and molecular structure, molecular and atomic spectroscopies, kinetic theory of gases, and kinetics. Offered spring only.

**CHE 307 PHYSICAL CHEMISTRY LABORATORY I**

1, 0/3; WIIF

Prerequisites: CWP 102, CHE 204, CHE 301, and CHE 305 or concurrent registration. Thermodynamic studies on the properties of solids, liquids and gases, including polymer solutions, using modern techniques. Laboratory experiments include: treatment and analysis of raw data, morphology of polymers, thermogravimetric analysis of solids, heat of combustion of solids, heat of reactions' solutions, heat of sorption of gases into polymers, heat of evaporation of liquids, heat capacities of gases and solid-liquid phase equilibrium. Utilizing the literature and practice in recording and disseminating data collected using an electronic notebook, organizing and writing a scientific report. Offered annually in the fall semester.

**CHE 308 PHYSICAL CHEMISTRY LABORATORY II**

1, 0/3; WIIF

Prerequisites: CHE 305 and CHE 307 and MAT 263 AND CWP 102 or ENG 102. A laboratory study of principles of physical chemistry covered in CHE 306. Topics include determination of rate laws; ultraviolet, visible, and infrared spectroscopy; and photochemistry. Data analysis using statistical methods and error analysis is required. Offered spring only.

### CHE 310 LITERATURE OF CHEMISTRY

1, 1/0

Prerequisite or Concurrent Registration: CHE 201 or CHE 321. Sources of chemical literature. Experiences in chemical information searching and retrieval, including examples of computer searching. Offered fall only.

### CHE 315 ENVIRONMENTAL CHEMISTRY AND TECHNOLOGY

3, 3/0

Prerequisite: CHE 112 or CHE 102. Discussion of chemical reactions in air, water, and soil. Effect of human activities on the chemical environment. Alternative energy sources, pollution-control methods and devices. Offered occasionally.

### CHE 321 PRINCIPLES OF ORGANIC CHEMISTRY

4, 3/3

Prerequisite: CHE 102 or CHE 112/CHE 114. Survey of organic chemistry. Structural isomerism, acid-base and mode of hybridization of carbon in organic compounds. Saturated, unsaturated and aromatic hydrocarbons, IUPAC nomenclature, R/S rule, E/Z isomers and Fisher projection. Nucleophiles, electrophiles, nucleophilic substitution and elimination reaction. Reactivity and selectivity of organic compounds. Not open to chemistry/forensic chemistry majors. Offered fall only.

### CHE 322 BIOLOGICAL CHEMISTRY

4, 3/3

Prerequisite: CHE 202 or CHE 321. Structure and functions of the substances of biochemical interest found in living systems, supplemented by illustrative laboratory work. Not open to chemistry or forensic chemistry majors. Offered spring only.

### CHE 325 MEDICATIONS

3, 3/0

Prerequisites: CHE 201 or CHE 321. Structure and mechanism of action for common medications; history of drug development and discovery; FDA regulations governing drug testing and sale; drug's potential to reach its target via various routes of administration; underlying causes of common drug-interactions; differences between prescription, over the counter, generic, herbal, and schedule drugs. Formerly CHE 300. Not open to the students who took CHE 300 previously. Offered occasionally.

Equivalent Course: CHE 300

### CHE 331 PRINCIPLES OF PHYSICAL CHEMISTRY

3, 3/0

Prerequisites: CHE 202, MAT 126 or MAT 162, PHY 108 or PHY 112, or permission of instructor. A one-semester survey course exploring the principles of physical chemistry, oriented toward the needs of forensic chemistry majors and students in environmental and health related sciences. Topics include thermodynamics, kinetics, quantum chemistry, and atomic and molecular spectroscopies. Offered spring only.

### CHE 360 INTRODUCTION TO INORGANIC CHEMISTRY

3, 3/0

Prerequisites: CHE 202. Descriptive inorganic chemistry of the main group and transition metal elements. Atomic structure and trends in the periodic table. Theories of chemical bonding. Introduction to crystal field, ligand field and molecular orbital theories. Inorganic chemistry of important industrial processes, including metallurgy. Role of metal ions in biological systems. Offered fall only.

### CHE 389 TOPIC COURSE

3, 0/0

Current advanced topics in Chemistry. Offered occasionally.

### CHE 399 INTERNSHIP IN CHEMISTRY

1-6, 0/0

Prerequisite: Permission of instructor. Hands on experience in approved research and/or development project of current interest to local chemical industry. Offered every semester.

### CHE 403 INSTRUMENTAL ANALYSIS

3, 3/0

Prerequisites: CHE 301; CHE 331 or CHE 306 recommended. Principles of modern analytical instruments and their applications for chemical analysis. Statistical treatment of data, basic electronics and signal processing, basic optics, molecular and atomic spectroscopy, chromatography and separations, electrochemical methods, and mass spectrometry. Offered spring semester.

### CHE 404 INSTRUMENTAL ANALYSIS LAB

2, 0/6

Prerequisite: CHE 403 and Instructor Permission. Laboratory course based on modern analytical instruments used in industry and research labs. Principles and practical applications of analytical instruments. Instrumental analysis lab techniques. Analysis of experimental data and errors. Offered every fall semester.

### CHE 406 ANALYTICAL TOXICOLOGY

3, 1/6

Prerequisites: CHE 202, CHE 301. Introductory analytical toxicology for pharmaceutical, forensic, and clinical analysis; Exploration of the main categories of inorganic and organic toxins, sample collection and treatment, chromatographic separation, spectroscopic and mass spectral determination of various toxic compounds in clinical, forensic, and environmental samples. Offered every other spring.

### CHE 430 ORGANIC CHEMISTRY III

3, 3/0

Prerequisite: CHE 202 and CHE 305. Advanced topics in theoretical and physical organic chemistry with emphasis on reaction types, mechanisms, and structure. Offered occasionally.

### CHE 462 ADVANCED INORGANIC CHEMISTRY

3, 2/3

Prerequisites: CHE 202, CHE 204, CHE 305, CHE 360, and CHE 306 or concurrent. Physical inorganic and transition metal chemistry. Development of symmetry and its applications to the spectroscopy of inorganic systems. Crystal field, ligand field and molecular orbital theories. Organometallic chemistry, homogenous and heterogeneous catalysis. Metal ions in bioinorganic systems, inorganic materials. Advanced synthetic methods and methods of characterization. Offered spring only.

### CHE 470 BIOCHEMISTRY I

3, 3/0

Prerequisites: CHE 202; BIO 211 recommended. Study of the molecular structure and function of the four major classes of biomolecules: proteins, nucleic acids, lipids, and carbohydrates. Examination of enzyme kinetics, mechanism, and regulation. Examination of the molecular nature of DNA replication and an introduction to recombinant DNA technology. Offered fall only.

### CHE 471 BIOCHEMICAL TECHNIQUES

2, 1/3; CT14, IM14, WIIF

Prerequisites: CHE 204 and CHE 301. Prerequisite or concurrent registration: CHE 470. Techniques used in the collection and analysis of experimental data on biochemical systems. Participation in laboratory experiments illustrating biochemical techniques and general biochemical principles. Practice in recording and disseminating data collected in a modern biochemistry laboratory, including: record keeping via a laboratory notebook, organizing and writing a scientific report, and giving an oral presentation on scientific results. Offered fall only.

### CHE 472 BIOCHEMISTRY II

3, 3/0

Prerequisites: CHE 202, CHE 470, BIO 211 or BIO 214. A continuation of CHE 470 Biochemistry I. Examination of metabolic processes in living systems. Relationship of metabolic enzyme activity to cellular control. The chemistry of genetic information, storage and expression. Offered spring only.

### CHE 495 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Faculty project adviser permission. Offered every semester.

### CHE 497 CHEMISTRY MICROCOURSE

1-3, 1/0

Examination of significant disciplinary issues, topics, or practices. Offered occasionally.

Equivalent Course: FOR 497

### CHE 499 INDEPENDENT STUDY

2-12, 0/0

Prerequisite: Faculty project adviser permission. Offered every semester.

## Childhood Advocacy Studies (CAS)

### CAS 301 PERSPECTIVES ON CHILD ABUSE AND ADVOCACY

3, 3/0

Prerequisites: Junior or senior status; PSY 101 or CRJ 101 or SWK 220 or EXE 100 or Instructor permission. Introduction to child advocacy studies from a variety of diverse, professional perspectives. History, responses to child maltreatment, skills necessary to successfully conduct child advocacy, and other issues pertaining to child maltreatment and advocacy. Designed for students majoring in criminal justice, education, social work, sociology, psychology, or other areas where knowledge of child maltreatment and advocacy might be beneficial. Offered every fall. Equivalent Course: PSY 301

### CAS 302 GLOBAL CHILD ADVOCACY ISSUES

3, 3/0; DI14

Prerequisites: CAS 301 or PSY 301. Issues related to the lives of children in countries around the globe and immigrant and refugee children locally. Multidisciplinary approaches to advocacy with these populations. Designed for students majoring in criminal justice, education, psychology, social work, sociology, or other areas where knowledge of child maltreatment and advocacy might be beneficial. Required for Child Advocacy Studies certificate program. Offered every Spring.

### CAS 401 PROFESSIONAL AND SYSTEMIC APPROACHES TO CHILD ABUSE AND MALTREATMENT

3, 3/0

Prerequisites: CAS 301 or PSY 301, Junior/Senior standing. Child abuse and maltreatment including knowledge and skills identifying, investigating and prosecuting child abuse. Systems involved in responding to child abuse/maltreatment. Child witnesses, civil and criminal child protection cases. Offered every Spring.

## Chinese (CHI)

### CHI 101 BEGINNING CHINESE I

3, 3/0; GE14

Fundamentals of Mandarin Chinese with an emphasis on the spoken and written language. Offered fall only.

### CHI 102 BEGINNING CHINESE II

3, 3/0; GE14

Prerequisite: CHI 101 or equivalent. Continuation of CHI 101. Offered spring only.

### CHI 201 INTERMEDIATE CHINESE I

3, 3/0

Prerequisite: CHI 102 or equivalent. Further development of Mandarin Chinese with an emphasis on reading and writing. Offered fall only.

### CHI 202 INTERMEDIATE CHINESE II

3, 3/0

Prerequisite: CHI 201 or equivalent. Continuation of CHI 201. Offered spring only.

### CHI 301 CHINESE CONVERSATION AND COMPOSITION I

3, 3/0

Prerequisites: CHI 202. Practice in spoken and written Mandarin Chinese. Offered fall only.

### CHI 302 CHINESE CONVERSATION AND COMPOSITION II

3, 3/0

Prerequisites: CHI 301. Practice in spoken and written Mandarin Chinese. Offered spring only.

### CHI 389 TOPICS COURSE

3-9, 0/0

# Coaching and Physical Education (HPR)

## HPR 100 SPECIAL PROJECT

1, 0/0

Limited for certain movement, exercise, and sport experiences. Completion of form and approval of program coordinator required. Forms available in the Coaching and Physical Education Office. Offered every semester.

## HPR 114 JOGGING FOR PHYSICAL FITNESS

1, 0/2

Offered occasionally.

## HPR 126 PRINCIPLES, PHILOSOPHY AND ORGANIZATION OF ATHLETICS IN EDUCATION

3, 3/0  
A study of the philosophy and principles of athletics in education. Students will learn rules, regulations, risk management, personal standards and values, coaching concerns to include special populations. Designed as a required course for students choosing to meet minimal New York State standards for coaching certification. Meets part of the state-mandated requirements for interscholastic coaches. Offered every Fall and Spring

## HPR 154 FITNESS THROUGH SWIMMING

1, 0/2

Prerequisite: Completion of HPR 153 or demonstration to the instructor of equivalent aquatic ability. Activity aquatic class to increase student's cardio-respiratory fitness level. Swimming skills, workout planning and participation. Offered occasionally.

## HPR 180 PHYSICAL FITNESS FOR WOMEN

1, 0/2

Offered occasionally.

## HPR 189 TOPICS COURSE

1-3, 1/0

Current topics in coaching. Offered occasionally.

## HPR 198 STRENGTH FITNESS

1, 0/2

Offered occasionally.

## HPR 202 TECHNIQUES AND THEORIES OF SOCCER

2, 2/0

Prerequisites: HPR 126. Basic underlying philosophies, techniques and theories for planning, organizing and managing soccer programs in educational settings, ie – high school. Intended for prospective soccer coaches. Applying the principles and practices of coaching a soccer team. Active participation in practical coaching scenarios under the guidance and supervision of a New York State certified coach. Offered Fall semester

## HPR 203 THEORIES AND TECHNIQUES OF FOOTBALL

2, 2/0

Prerequisites: HPR 126 or HPR 300. Underlying philosophies, theories and techniques for planning, organizing and managing football programs. Intended for prospective football coaches. Applying the principles and practices of coaching a football team. Active participation in practical coaching scenarios under the guidance and supervision of a New York State certified coach. Offered occasionally

## HPR 205 THEORIES AND TECHNIQUES OF TRACK AND FIELD

2, 2/0

Prerequisites: HPR 126 or HPR 300. Basic underlying philosophies, theories and techniques for planning, organizing and managing track and field programs. Intended for prospective track and field coaches. Applying the principles and practices of coaching a track and field team. Active participation in practical coaching scenarios under the guidance and supervision of a qualified coach. Offered spring semester.

## HPR 207 TECHNIQUES AND THEORIES OF BASEBALL/SOFTBALL

2, 2/0

Prerequisites: HPR 126 or HPR 300. Basic underlying philosophies, techniques and theories for planning, organizing and managing baseball/softball programs in educational settings, ie – high school. Intended for prospective baseball/softball coaches. Applying the principles and practices of coaching a baseball team/softball. Active participation in practical coaching scenarios under the guidance and supervision of a New York State certified coach. Offered Fall and Spring semester

## HPR 208 TECHNIQUES AND THEORIES OF SWIMMING

2, 2/0

Prerequisites: HPR 126 or HPR 300. Basic underlying philosophies, theories and techniques for planning, organizing and managing swimming programs. Intended for prospective swimming coaches. Applying the principles and practices of coaching a swim team. Active participation in practical coaching scenarios under the guidance and supervision of a New York State certified coach. Offered occasionally

## HPR 209 TECHNIQUES AND THEORIES OF BASKETBALL

2, 2/0

Prerequisites: HPR 126 or HPR 300. Basic underlying philosophies, techniques and theories for planning, organizing and managing basketball programs in educational settings, ie – high school. Intended for prospective basketball coaches. Applying the principles and practices of coaching a basketball team. Active participation in practical coaching scenarios under the guidance and supervision of a New York State certified coach. Offered Fall semester

## HPR 301 KINESIOLOGY: APPLIED ANATOMY AND BIOMECHANICS

3, 3/0

Prerequisite: Sophomore status. Study of selected anatomical, physiological, and mechanical principles of movement and their application to human motion. Offered fall only. Equivalent Course: HEW 301

## HPR 306 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS

3, 3/0

Prerequisite: Sophomore status. Critical analysis of the organization and administration of intramural and recreational sports programs. Offered occasionally.

### HPR 309 HEALTH SCIENCES FOR COACHING

3, 3/0

Interdisciplinary study of the health sciences as they apply to coaching interscholastic sports. Selected principles of anatomy, kinesiology, and physiology related to coaching; risk minimization; mixed competition; New York State Department of Education selection and classification of athletes; definition of age and maturity of athletes. Partially fulfills New York State requirements for interscholastic coaching certification. Offered spring and summer only.

### HPR 319 SOCIOLOGY OF SPORT

3, 3/0

Sport and related social phenomena of social status, norms, goals, values, and organizational network. Offered spring only.

Equivalent Course: SOC 324

### HPR 335 PREVENTION AND CARE OF ATHLETIC INJURIES

3, 3/0

The relationships among conditioning, performance, and injury prevention. Includes techniques and programs of body conditioning for specific sports, and the possible treatment of athletic injuries. A required course for students choosing either to meet minimal standards for coaching certification or to meet the requirements of the coaching minor. Offered fall only.

Equivalent Course: HEW 335

### HPR 389 TOPICS COURSE

1-3, 1/0

Current advanced topics in coaching. Offered occasionally.

Equivalent Course: HEW 389

### HPR 488 INTERNSHIP

1-15, 0/0

Prerequisites: Upper-division status and instructor permission. The integration of theoretical knowledge with practical field experience in coaching interscholastic sports. Offered fall only.

Equivalent Course: HEW 488

### HPR 495 SPECIAL PROJECT

1-3, 0/0

Offered occasionally.

Equivalent Course: HEW 495

### HPR 499 INDEPENDENT STUDY

3-9, 0/0

Offered occasionally.

## College Writing Program (CWP)

### CWP 099 DEVELOPMENTAL COLLEGE WRITING

0, 3/0

A skill-building course designed to reinforce sentence and paragraph structure through emphasis on structure, unity, and coherence. Appropriate for both native students and non-native English-speaking students needing skill enhancement in Standard American English. Offered every semester.

### CWP 101 COLLEGE WRITING I

3, 3/0; WO14

Prerequisites: Successful completion of CWP 099 or SAT score over 400 or ACT score 17 or higher. Introduction to academic discourse practices and conventions, including the development of composing processes and skills that will prepare individuals for success as university students and citizens. Emphasis on critical reading and inquiry, writing for a variety of rhetorical situations, and effective academic writing and research processes. Offered every semester.

### CWP 102 ARGUMENTATION AND RESEARCH

3, 3/0; WO14

Prerequisite: CWP 101 or its equivalent. (See College Writing Program Office, 130 South Wing for placement procedures.)

Course focusing on development of academic communication and research skills. Written and oral assignments emphasize argumentation and persuasion, advanced rhetorical strategies, analysis/synthesis, and critical thinking. Offered every semester.

## Communication (COM)

### COM 100 MEDIA LITERACY

3, 3/0; HU14

Role of mass media in the lives of individuals and society; exploration of development structure and technology of media, as well as social, economic, ethical, and related issues; focuses on roles of both consumers and producers of media. Offered every semester and summer.

### COM 189 TOPIC COURSE

3, 0/0

Current topics in communication. Offered occasionally.

### COM 210 INTRODUCTION TO MEDIA WRITING

3, 2/2

Prerequisites: CWP 101 and CWP 102. Writing lab with practice in organizing and writing for print and digital media; introduction to news, feature and advocacy writing; application to journalism, public relations and advertising. Offered every semester and summer.

### COM 212 INTRODUCTION TO DIGITAL STORYTELLING

3, 3/0

Introduction to digital storytelling in media production; hands-on practice in scriptwriting, production organization, camera techniques, storytelling approaches, aesthetics, and fundamentals of directing. Foundational concepts in film analysis and criticism will be introduced. Offered every semester.

### COM 215 INTRODUCTION TO VISUAL COMMUNICATION

3, 3/0

Prerequisites: COM 100 or SPC 103. Analysis of production and consumption of visual information; exploration of the role of images in the communication process; application to journalism, broadcasting, public relations, advertising and digital media. Offered every semester and summer.

### COM 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**COM 301 PRINCIPLES OF PUBLIC RELATIONS AND ADVERTISING**

3, 2/2

Prerequisite: COM 100, SPC 205, COM 210, COM 215. Principles of strategic integrated communication (public relations and advertising); based on model of formative research, strategy, tactics, evaluation, exploration of public relations and advertising via theoretical base, ethical principles, social responsibilities, functions, and professional aspects. Offered every semester.

**COM 302 PRINCIPLES OF JOURNALISM**

3, 2/2

Prerequisites: COM 100 or SPC 103, COM 210, COM 215, SPC 205. Overview of journalism and its historical, ethical, and professional base; focus on news sources, with practice in information-gathering techniques. Offered every semester.

**COM 303 WRITING FOR PRINT AND ONLINE JOURNALISM**

3, 2/2; CT14, IM14, WIIF

Prerequisite: COM 100 or SPC 103, SPC 205, COM 210, COM 215. Practice in news writing for print and online publications; theory, form, and techniques in writing news; focuses on leads and various types of reporting scenarios; experience in writing under deadline pressure. Offered every semester.

**COM 304 WRITING FOR BROADCAST (TV, RADIO, FILM)**

3, 2/2; CT14, IM14, WIIF

Prerequisites: Completion of CWP 102 or ENG 102 and COM 210 or ENG 190 or TFA 201 with a minimum grade of C. Practice in organizing and writing for radio, audio media, television, and other visual media; writing in various formats, including commercials, promotional announcements, documentaries, corporate video, and narrative scripts. Offered every semester and summer.

**COM 308 PUBLIC RELATIONS WRITING**

3, 3/0; CT14, IM14, WIIF

Prerequisites: COM 100 or SPC 103, SPC 205, COM 210, COM 215. Intensive practice in writing for all types of public relations situations; focus on writing for both news media and organizational media for purposes of both information and advocacy. Offered every semester.

**COM 310 INTERNATIONAL COMMUNICATION**

3, 3/0

Prerequisite: Upper-division status. Analysis of the role of international communication in today's global society through a comparative study of the world's press and broadcasting systems. Includes journalistic values of other countries, differing philosophies of broadcasting, and the process of international communication within the framework of North-South, social, economic, and political divisions of the late twentieth century. Offered fall only.

**COM 312 BASIC MEDIA PRODUCTION**

3, 2/2

Prerequisites: COM 215 or COM 212 or TFA 201. Exploration of basic concepts and processes of video and audio media production and editing, including hands-on experience in field production, audio recording and both video and audio post production; review of career options. Offered every semester.

**COM 314 ADVERTISING COPYWRITING**

3, 2/2

Prerequisite: COM 210, COM 301. Intensive practice in planning, writing and evaluating advertising messages; informative and persuasive writing for print, broadcast and online media; advertising creativity, ethics and persuasion theory. Offered annually.

**COM 317 MEDIA MANAGEMENT**

3, 3/0

Prerequisite: COM 100, SPC 205, COM 210, COM 215. Theory and practice in broadcast management for radio and television stations, cable networks, online digital media; focus on structure, budget, sales, regulations, and audience-building aspect of programming and management. Offered every semester.

**COM 322 COMMUNICATION GRAPHICS**

3, 2/2

Prerequisites: COM 100, SPC 205, COM 210, COM 215. Theory and practice of information design for organizational and mass media; application for print, digital, and other communication media. Offered every semester and summer.

**COM 325 FEATURE WRITING**

3, 3/0; CT14, IM14, WIIF

Prerequisites: COM 100, SPC 205, COM 210, COM 215. Theory and advanced practice in writing magazine articles, newspaper features, and similar stories for online publications; writing for specialized audiences; introduction to freelance procedures. Offered every semester.

**COM 327 LITERARY JOURNALISM**

3, 3/0

Prerequisites: COM 100 or SPC 103 and COM 210. Exploration of literary excellence in journalistic writing; classic journalistic authors and their stories; relationship of journalism and literature, as well as television and radio scripts and online, long-form narrative. Offered occasionally.

**COM 328 INTERMEDIATE POST PRODUCTION**

3, 2/2

Prerequisites: COM 312. Theory, aesthetics and practice of digital post production in video and audio; emphasis on workflow, structure and storytelling techniques for radio, audio, television and film; hands-on experience in digital post production in various genres utilizing digital editing and mixing softwares. Offered every semester.

**COM 329 INTERMEDIATE VIDEO PRODUCTION**

3, 2/2

Prerequisites: COM 312. Theory, aesthetics and practice of creating digital media productions; emphasis on preproduction and production practices in a variety of genres for audio, radio, television and film; hands on experience in both studio and field production settings; experience working in teams. Offered every semester.

**COM 335 TALK RADIO/TALK TELEVISION**

3, 3/0

Prerequisite: Upper-division status. Introduction to various aspects of talk radio and talk television; differences between news reporters and talk-show hosts; relationship with sales and audience analysis; attention to roles of producer, program director, and promotions. Offered fall only.



**COM 336 WEB AND SOCIAL MEDIA PRODUCTION**  
3, 2/2

Prerequisites: COM 100, SPC 205, COM 210, COM 215.  
Theory and practice of Web-based communication and social media; focus on strategy and design as well as writing for Web and social media. Offered every semester.

**COM 337 ELECTRONIC NEWS PRODUCING**  
3, 2/2; CT14, IM14, WIIF

Prerequisites: COM 100, SPC205, COM 210, COM 215, COM 302. News writing and producing for electronic media in studio setting; theory, form, and techniques of writing and presenting news for radio and television; practice in reporting, writing, and presentation under deadline pressure. Offered every semester.

**COM 338 ELECTRONIC NEWS: REPORTING**  
3, 2/2

Prerequisite: COM 100, SPC 205, COM 210, COM 215, COM 302, COM 312. News reporting for electronic media in non-studio locations; practice in reporting, writing, and news presentation under deadline pressure; techniques of using cameras and editing equipment. Offered every semester.

**COM 339 INTRODUCTION TO MOTION GRAPHICS**  
3, 2/2

Prerequisites: Junior/Senior Standing. Introduction to digital motion graphic creation and history, including content development, design and motion techniques in title sequences, television graphics, rotoscoping and experimental effects. Conceptual and aesthetic approaches explored in both artistic and industry graphics. Hands-on work on creative graphics and animation projects. Offered biennially in spring semester.

**COM 340 PHOTOJOURNALISM**  
3, 2/2

Prerequisite: Completion of COM 212 or COM 215. Basic techniques of news photography as practiced by newspapers and magazines, with laboratory and field assignment experience. Note: 35mm camera with meter and full manual controls required. Offered occasionally.

**COM 341 FUNDRAISING**  
3, 3/0

Theory and practice of fundraising and organizational philanthropy; focus on planning, organization, management, marketing, and practical approaches that nonprofit organizations use to raise money from private sources. Offered fall only.

**COM 342 AUDIO AND MUSIC IN MEDIA**  
3, 3/0

Prerequisites: COM 312. Study of the role of audio and music in various media formats; hands on approach to music and sound effect selection, production, manipulation and integration in media. Offered occasionally.

**COM 389 TOPICS COURSE**  
1-9, 0/0

Offered occasionally.

**COM 390 SPECIAL TOPICS: JOURNALISTIC WRITING**  
3, 3/0; CT14, IM14, WIIF

Prerequisites: COM 100, SPC205, COM 210, COM 215. Specialized reporting; includes extensive study, research, analysis, and journalistic writing on a special topic, such as sports, business, health, technical, or environmental reporting. Offered every semester.

**COM 391 SPECIAL TOPICS IN PUBLIC RELATIONS**  
3, 0/0

Current advanced topics in the field of public relations. Offered occasionally.

**COM 392 PUBLIC RELATIONS IN SPORTS**  
3, 3/0

Prerequisites: CWP 101, CWP 102, COM 210, or admission to sports management minor. Sports public relations and its role in intercollegiate and professional athletics; process and practice of sports information and media relations; topics include writing formats, publications, crisis management, game management, current events, law, and ethics. Offered every semester.

**COM 400 COMMUNICATION LAW**  
3, 3/0

Prerequisites: COM 100, SPC 205, COM 210, COM 215. Study of freedom of speech and the press in the United States, particularly the rights and responsibilities of the media and constraints placed on them under law: libel, privacy, journalistic privilege, free press/fair trial, obscenity, advertising law. Offered every semester.

**COM 401 APPLIED COMMUNICATION RESEARCH**  
3, 3/0

Prerequisites: COM 301. Applied research techniques in communication fields; students do original research using content analysis, focus groups, and/or surveys. Offered every semester.

**COM 405 ONLINE NEWSROOM**  
3, 2/1; CT14, IM14, WIIF

Prerequisites: COM 303, COM 338. Supervised reporting and editing experience through laboratory practice resulting in online publication; theory and practice in news gathering, writing, editing, capturing visual and audio elements of news stories, working under deadline pressure; emphasis on news judgment, research, accuracy, data gathering, interviewing, editing, diversity, legal issues and journalistic ethics. Offered every semester.

**COM 408 PUBLIC RELATIONS CASE STUDIES**  
3, 3/0

Prerequisite: COM 301. Exploration of various genres of public relations; application of strategic principles, techniques, and programs to real-life organizational problems and opportunities. Offered fall only.

**COM 410 MASS COMMUNICATION HISTORY**  
3, 3/0

Prerequisite: Upper-division status. Historical survey of the technology and social evolution of journalism and the broadcasting industries, including an analysis of their roles in American society. Offered occasionally.

**COM 418 CAMPAIGNS IN PUBLIC RELATIONS AND ADVERTISING**  
3, 2/2

Prerequisites: COM 308, COM 401. Capstone professional experience in strategic integrated communication based on public relations and advertising; experience in developing campaigns for an actual client, with focus on formative research, strategy, tactics, evaluation, as well as client presentation. Offered every semester.

COM 424 SPECIAL TOPICS IN MEDIA CRITICISM  
3, 3/0

Critical analysis of mass media, including print, broadcast and digital; focus on the role of media in a particular context (such as electoral politics or war). Offered occasionally.  
Equivalent Course: SPC 424

COM 428 ADVANCED AUDIO PRODUCTION  
3, 2/2

Prerequisite: COM328. Capstone experience in producing audio; emphasis on multi-track recording, mixing, music and voice editing. Offered every semester.

COM 429 ADVANCED MULTI-CAMERA STUDIO PRODUCTION  
3, 2/2

Prerequisite: COM329. Capstone experience in studio television production using news and/or other genres requiring advanced skills; requires hands-on practice in studio-based productions. Offered every semester.

COM 431 ADVANCED FIELD PRODUCTION  
3, 2/2

Prerequisite: COM 329. Capstone experience in producing and directing field video productions for on-campus/off-campus viewing; students specialize in field productions in non-studio locations; use of portable cameras, lighting and sound equipment; production in remote studio settings. Offered fall only.

COM 432 ADVANCED POST-PRODUCTION  
3, 2/2

Prerequisite: COM 312. Capstone experience in video post-production; emphasis on post-production editing and editor's role in visual storytelling; hands-on approach to developing both artistic insight and practical skills in editing. Offered every semester.

COM 433 ADVANCED TV DOCUMENTARY PRODUCTION  
3, 2/2

Prerequisite: COM 312. Capstone experience in producing and directing television documentaries, with hands-on experience in planning, writing, shooting and editing; focus on analysis and evaluation of documentary productions. Offered spring only.

COM 434 ADVANCED VIDEO PRODUCTION PRACTICUM  
3, 2/2

Prerequisite: COM 329. Capstone experience in producing video programming for client- and college-generated on-campus/off-campus uses. Students staff a full production team for public affairs, community service, promotions, entertainment, and other types of programming. Offered fall only.

COM 435 VISUAL EFFECTS  
3, 2/2

Prerequisites: COM 329. Study and creation of computer generated visual effects (VFX), such as green screen, color correction, digital compositing, motion capture and motion tracking. Conceptual and aesthetic approaches to VFX will be explored in artistic and industry examples. Students will plan, produce and direct videos integrating visual effects working in industry-emulating teams. Offered biennially in spring semester.

COM 447 COMMUNICATION DATA ANALYTICS  
3, 3/0

Prerequisite: Junior or Senior Standing. A communication research, software application, legal and ethical exploration of the use of social media data and open digital data in journalism, media management, marketing, public relations and advertising. Offered spring semester only.

COM 450 COMMUNICATION AND SOCIETY  
3, 3/0; CT14, IM14, WIIF

Prerequisites: COM 100/SPC 103, SPC 205, COM 210, COM 215, completion of 21 upper-division COM/SPC courses. Role of communication in society; exploration of contemporary issues in mass media and related disciplines; focus on ethical responsibilities of communication professionals. Offered every semester.

COM 488 INTERNSHIP  
1-15, 1/0

Prerequisites: Permission of instructor upon recommendation of advisor. COM 301 and COM 308 for internships in public communication major. COM 304 and COM 312 for internships in media production major. COM 302 and COM 303 or 338 for internship in journalism major. Supervised field experiences in a professional setting for students who have completed extensive academic preparation in the discipline. Fifty hours of fieldwork per credit. Offered every semester.

COM 495 SPECIAL PROJECT  
1-3, 3/0

Prerequisites: Permission of instructor. Offered occasionally.

COM 499 INDEPENDENT STUDY  
3-12, 3/0

Prerequisites: Permission of instructor. Offered occasionally.

## Community Engaged Learning (CEL)

CEL 189 TOPICS IN COMMUNITY ENGAGEMENT  
1-6, 1/0

Examination of topics or practices related to community engagement; offered occasionally.

CEL 301 COMMUNITY PERSPECTIVES AND EXPERIENCES  
3, 1/2

Community experiences contextualized through readings on contemporary social issues and social justice as they relate to the city of Buffalo historically and currently. Students will serve 100 hours at a community organization over the course of one semester.

CEL 389 TOPICS COMMUNITY ENGAGE  
1-6, 1/0

Examination of disciplinary issues, topics, or practices related to community engagement; offered occasionally.

# Computer Information Systems (CIS)

## CIS 101 COMPUTER FUNDAMENTALS

3, 3/0

The character, organization, and use of the computer. The function of the basic components of the computer. A broad survey of application software, as well as its impact on society. Hands-on experience using common software applications such as word processing, spreadsheets, databases, and communications required. Offered every semester.

## CIS 105 INFORMATION TECHNOLOGY AND SOCIETY

3, 3/0

The impact of information technology (IT) on social, ethical, legal, economic, privacy, intellectual property, and personal issues. Contemporary issues and challenges as affected by historical IT developments (Internet, databases, networks, communications, etc.) Students use current technology to support investigations of related topics and to communicate findings. Offered every semester.

## CIS 121 INTRODUCTION TO CODING

3, 3/0; MQ14

Introduction to various topics of computer science and to develop in students the computational thinking practices of problem solving and coding within the context of problems that are relevant to the lives of today's students. Students will be exposed to programming basics using block-based graphical environment, website design, and app programming for mobile devices. Offered every semester.

## CIS 151 COMPUTER-BASED INFORMATION PROCESSING I

3, 3/0

Description of computers, concepts of languages and programming. Basic properties of computer languages such as branching, looping, array handling, subprograms and functions and their application to the solution of a variety of problems. Emphasis on structured programming language with enhancement of programming skills through use of a contemporary computer programming language to write applications programs. Prospective CIS majors must earn a minimum grade of C in this course. Required for majors. Offered every semester.

## CIS 189 TOPIC COURSE I

3, 0/0

Topics in Computer Information Systems.

## CIS 190 TOPIC COURSE II

3, 3/0

## CIS 251 COMPUTER-BASED INFORMATION PROCESSING II

3, 3/0

Prerequisite: CIS 151 or equivalent. Continuation of CIS 151. Pointers, data structures, files, lists, abstract data types, and classes. Emphasis on structured programming process using a high-level language. Required for majors. Offered every semester.

## CIS 315 COMPUTER ORGANIZATION

3, 3/0

Prerequisite: CIS 151. This course breaks the basic organization of a computer system into a hierarchy of basic levels. Examination of CPU organization, digital logic level, micro-architecture level, and parallel architectures. How each of these levels and components interact to produce a working computer system. Focus is not solely on hardware but more broadly covers the interconnection between the fundamental building blocks of a computer and the relationship between hardware and software. Required for majors. Offered every semester.

## CIS 361 FUNDAMENTAL CONCEPTS IN OBJECT-ORIENTED PROGRAMMING

3, 3/0

Prerequisite: CIS 151. An introduction to object-oriented programming. Introduces transfer students who have had the equivalent programming experience in a procedural-oriented environment to the paradigms of the object-oriented environment. Required for CIS majors who have no previous experience with object-oriented programming. Offered fall only.

## CIS 370 SYSTEMS ANALYSIS AND DESIGN

3, 3/0; WIIF

Prerequisite: CIS 151. Introduction to information analysis and system design. Topics include the systems concepts, defining a system, systems analysis, hardware elements, software elements, case studies. Required for majors. Offered every semester.

## CIS 375 PROGRAMMING FOR THE INTERNET ENVIRONMENT I

3, 3/0

Prerequisite: CIS 151 or equivalent. Overview of the Internet and its components, protocols, and software. Students create and maintain Web pages to distribute and collect information and to validate user input, and write applications specifically for the Internet environment. Offered every semester.

## CIS 380 MICROCOMPUTER APPLICATIONS

3, 3/0

Prerequisite: CIS 370. Representative microcomputer software packages are used to solve advanced business application problems. Hands-on lab projects form a significant component of the course. Systematic design principles emphasized. Analytical features and data management techniques applied. Integration of data from different packages are practiced. Required for majors. Offered every semester.

## CIS 388 SERVICE LEARNING IN COMPUTING

3, 1/0

Prerequisites: CIS 151 or Instructor Permission. Students will participate in organized service-learning activities, offering coding/programming workshops for middle and high school students to address community needs. Students will enhance their academic knowledge and skills in a variety of areas of computer programming, develop technical communication skills, and foster their civic responsibility. Offered in fall and spring semesters.

## CIS 389 TOPIC COURSE

3, 0/0

Topics in Computer Information Systems.

**CIS 391 INFORMATION SYSTEMS PROJECT MANAGEMENT**

3, 3/0

Prerequisite: CIS 370. An examination of current practices in Project Management as applied to Information Systems projects. Hands-on experience with the skills, tools, and techniques required in different phases of an information system project's life cycle, including project selection, project planning, project staffing and organization, task scheduling, project scope management, budgeting and progress reporting, risk management, quality management, project communications and use of appropriate project management software tools. Offered spring only.

**CIS 400 VISUAL BASIC PROGRAMMING FOR THE WINDOWS ENVIRONMENT**

3, 3/0

Prerequisite: CIS 251 or CIS 361. Students gain experience with an object-oriented, event-driven programming language using a modern integrated development environment. Students write programs utilizing basic data types, control structures, multiple forms, user-defined classes, arrays, and collections and access data from forms, files, and databases. Required for majors. Offered every semester.

**CIS 405 COMPREHENSIVE COBOL PROGRAMMING**

3, 3/0

Prerequisite: CIS 251 or CIS 361. Intensive study of COBOL and its use in commercial applications, with emphasis on COBOL fundamentals and advanced features, program design and style, and file handling. Programming projects involve commercially-oriented applications programs. Offered occasionally.

**CIS 410 COMPUTER OPERATING SYSTEMS**

3, 3/0

Prerequisite: CIS 251 or CIS 361, CIS 315. A study of computer operating systems, their functions, components, scheduling and execution of jobs, task management, and interrupts. A comparison and exploration of contemporary operating systems is incorporated. Offered every semester.

**CIS 411 DATABASE SYSTEMS**

3, 3/0; WIIF

Prerequisite: CIS 370. The basic concepts and uses of data and database systems. Topics include organization, analysis, and function of database systems. Components of representative relational, network and hierarchical databases will be presented along with programming and design. Required for majors. Offered every semester.

**CIS 413 MULTIMEDIA WEB PROGRAMMING**

3, 3/0

Prerequisites: CIS 251 or CIS 361, CIS 375. Integration of text, graphics, animation, and audio and video sources to create multimedia products deliverable via the World Wide Web. Programming with animation, data processing, dynamic content creation, and component manipulation. Emphasizes object-oriented capabilities of contemporary multimedia development tools, objects, methods, events, properties, and functions. Offered spring only.

**CIS 420 DATABASE MANAGEMENT SYSTEMS**

3, 3/0

Prerequisite: CIS 411. Advanced concepts of database management, including data modeling, features and uses of database management systems, data and database administration, and data dictionary. Offered spring only.

**CIS 425 OBJECT-ORIENTED DEVELOPMENT**

3, 3/0

Prerequisites: CIS 251 or CIS 361, CIS 370. Object-oriented approach to programming and design, including its history and rationale. Students gain hands-on programming experience using an appropriate object-oriented language. Offered fall only.

**CIS 427 E-COMMERCE SYSTEMS AND TECHNOLOGIES**

3, 3/0

Prerequisites: CIS 370, CIS 375. Examines technological advancements along with business and organizational issues of electronic commerce. The technological context includes an understanding of tools and concepts such as Web servers, client/servers, communication networks, and e-commerce software. The business context includes components such as payment methods, fulfillment policies, privacy, security, and international issues. Offered spring only.

**CIS 435 COMPUTER SEMINAR**

3, 3/0

Prerequisite: Permission of instructor. Selected topics from subjects not covered in formal courses. Offered occasionally.

**CIS 442 ADVANCED SYSTEMS APPLICATIONS**

3, 3/0

Prerequisite: CIS 411. Information systems in complex organizations. Techniques of information systems analysis and design. Detailed study of a representative real-world information system. Case studies, group work, and oral presentations. Offered occasionally.

**CIS 470 DATA COMMUNICATIONS**

3, 3/0

Prerequisites: CIS 151, CIS 315. A comprehensive study of data transmission, packet transmission, and internetworking concentrating on principles. Topics include, but are not limited to, underlying hardware, packet switching, Internet protocols, and network applications. Offered every semester.

**CIS 471 NETWORKING LABORATORY I**

3, 1/2

Prerequisites: CIS 410, CIS 470. Hands-on experience in installing, configuring, and administering a modern operating system in a networked environment. Topics include network topologies, paradigms, protocols, services, computer security, intrusion recover and privacy. Offered fall only.

**CIS 473 ENTERPRISE SYSTEMS DESIGN AND ADMINISTRATION**

3, 3/0

Prerequisites: CIS 251 or CIS 361, CIS 410, CIS 470. Knowledge and skills needed to be a successful member of an enterprise IT technology support group. Discussion includes roles, responsibilities, policies, procedures, and ethical issues. Projects include administration tasks, design issues, implementation plans, and performance-monitoring strategies. Installation and administration of enterprise-wide network hardware and software. Offered spring only.

## CIS 475 PROGRAMMING FOR THE INTERNET ENVIRONMENT II

3, 3/0

Prerequisites: CIS 251 or CIS 361, CIS 375, CIS 411. Server-side programming on the Internet. Contemporary server side-programming environment to distribute and collect information, validate user input, and provide dynamic Web content. Forms, databases, templates, cookies and session tracking and their use in dynamic site development examined. Offered fall only.

## CIS 478 INFORMATION SYSTEM SECURITY

3, 3/0

Prerequisites: CIS 410, CIS470. A survey of essential topics pertinent to modern computer, network and information security. Topics include Fundamental security concepts; Organizational risk assessment and valuation; Attack strategies for operating systems, network and web services; Mitigation techniques, system strengthening (hardening), countermeasures and trade-offs. Offered fall only.

## CIS 488 INTERNSHIP

3-15, 3/0

Prerequisites: CIS 380, upper-division status, and permission of instructor. Qualified students are placed in functioning organizations to work as trainees, on special projects or studies, or in a relevant aspect of information systems. Offered every semester.

## CIS 490 SENIOR SEMINAR

3, 3/0

Capstone Course.

## CIS 494 UNDERGRADUATE RESEARCH IN COMPUTING

3, 3/0

Prerequisites: CIS Major or Minor, Upper Division status, Instructor Permission. Introduces students to various aspects of academic and applied research in the areas of Information Technologies, Computer Information Systems and related fields. Conduct in-depth research on topic of choice with instructor permission. Possible topics include, but are not limited to, programming methodology and applications, algorithms, advanced databases and distributed systems, networking, security, data analysis and related areas. Offered spring only.

## CIS 495 SPECIAL PROJECT

1-3, 0/0

## CIS 497 SPECIAL WORKSHOP

3, 0/0

Special workshop in Computer Information Systems.

## CIS 499 INDEPENDENT STUDY

3-12, 0/0

# Criminal Justice (CRJ)

## CRJ 101 INTRODUCTION TO CRIMINAL JUSTICE

3, 3/0; SS14

An introductory analysis of the agencies and processes of the criminal justice system, including an examination of patterns of crime and victimization; underlying ideologies; procedures, functions and structure; fundamental legal concepts; interaction between various social groups and the criminal justice system; and organization, discretion and decision-making of police, criminal courts, and correctional services. Offered every semester.

## CRJ 201 CRIMINAL LAW

3, 3/0

Prerequisite: CRJ 101. The study of substantive criminal law through the analysis of judicial opinions and textual material. In-depth coverage of the elements of crime, such as intent, actus reus, and concurrence, examined within the statutory definition of several different offenses and studied within the context of defenses such as justifications, among others. Offered every semester.

## CRJ 202 THE POLICE PROCESS

3, 3/0

Comprehensive introduction to the basic elements of policing in the United States, designed to acquaint students with the most current knowledge about police organizations, police officers, police work, and police problems. Offered every semester.

## CRJ 204 THE CORRECTIONAL PROCESS

3, 3/0

The correctional process from sentencing to parole. Examines legal and administrative processes used in establishing postconviction remedies, criminal sanctions, and social controls on adult offenders. Emphasis on understanding the structure and function of the American correctional system and the processes in establishing correctional custody and treatment. Offered every semester.

## CRJ 250 INTRODUCTION TO INTELLIGENCE ANALYSIS

3, 3/0

Survey course that introduces students to the discipline of intelligence in the areas of national security, business, and law enforcement. Provides students with an understanding of how intelligence systems function, how they are used by policymakers, and how they are managed and controlled. Covers such intelligence topics as history, ethics, psychology, and analytical techniques. Offered every semester.

## CRJ 301 POLICE ORGANIZATION AND MANAGEMENT

3, 3/0

Prerequisites: CRJ 101 or permission of instructor, upper-division status. Analysis of administrative theory and practice in police systems with emphasis on organization and function, and on issues unique to those systems. Offered every semester.

## CRJ 302 CRIMINAL JUSTICE AND THE COMMUNITY

3, 3/0

Patterns of crime in the community and the community's response. Differences between urban and suburban areas, as well as by age, gender, and race. Practices and effects of diversion, community-based corrections, victim-witness programs, crime watch, court watch, restitution, mediation, and dispute-resolution programs. Offered fall only.

**CRJ 303 CRIMINAL JUSTICE THEORY AND IDEOLOGY**  
3, 3/0; IM14, WIIF

Prerequisites: CRJ 101 and CWP 102. Examination of the social, political, cultural, and economic forces that shape the historical and contemporary theories and ideologies of crime and their interactive influences with criminal justice policies and practices. Offered every semester.

**CRJ 305 THE JUVENILE JUSTICE SYSTEM**  
3, 3/0

Prerequisites: CRJ 101, and upper-division status. The structure and function of the juvenile justice system. Statutes and court decisions used to determine jurisdiction over youth. Critical decision-making stages of the juvenile court process. Review of the research concerning the relative effectiveness of treatment and social control programs for youth. Emphasis on the historical, cultural, social, and legal influences governing the processes, priorities, and practices of juvenile justice. Offered every semester.

**CRJ 306 PROBATION, PAROLE, AND COMMUNITY CORRECTIONS**  
3, 3/0

Prerequisites: CRJ 101 and upper-division status. Review of probation, parole, and community corrections; their histories and organizational structures; the nature and effects of the process by which offenders are handled, as well as the dynamics and trends toward change in the field of probation, parole, and community-based corrections. Offered every semester.

**CRJ 307 COMPARATIVE CRIMINAL JUSTICE SYSTEM**  
3, 3/0

Prerequisite: CRJ 101. The major contemporary criminal justice systems and their operations under various cultural contexts. The social, economic, political, and ideological forces that have impacted present-day systems. Methodological issues of comparative research. Offered fall only.

**CRJ 308 CRIME PREVENTION**  
3, 3/0

Prerequisite: CRJ 101. The nature and effects of three levels of efforts at crime prevention: those administered by the formal justice system to prevent offenders from repeating offenses, those designed to deal with people identified as likely to commit crime, and those designed to modify the physical and social environments that foster crime. Offered occasionally.

**CRJ 310 STATISTICS IN CRIMINAL JUSTICE**  
3, 3/0

Prerequisite: Majors Only. An introductory overview of statistical principles and statistical techniques in criminal justice research. Introduction of data measurement, data distributions, probability and the normal curve, samples and populations, testing differences between means, analysis of variance, nonparametric tests of significance, correlation, and regression analysis. Includes "hands-on" experience using SPSS for data analysis and interpretation.

**CRJ 315 RESEARCH METHODS IN CRIMINAL JUSTICE**  
3, 3/0; WIIF

Prerequisites: CRJ 101 and upper-division status. Introduction to the research process as practiced in criminal justice addressing issues of ethics, research design, measurement, validity and reliability, and sampling. Explores various methods of data collection used in criminal justice research. Offered every semester.

**CRJ 317 CONSTITUTIONAL ISSUES IN CRIMINAL JUSTICE**

3, 3/0

Prerequisites: CRJ 101 and upper-division status. Constitutional issues in criminal justice through a review of United States Supreme Court decisions regarding law enforcement, prosecution, defense, judicial process, corrections, and community supervision; additional constitutional issues related to the administration of justice. Offered every semester.

**CRJ 320 CRIMINAL COURTS**  
3, 3/0

Prerequisite: CRJ 101. The trial criminal courts, with emphasis on courts for adult offenders. Legal, social, and political processes that affect the dynamics of the criminal trial process. Problems, possible reforms, and decision-making of the participants. Interrelationships that affect and influence court decisions and justice. Offered occasionally.

**CRJ 355 CRIME ANALYSIS**  
3, 3/0

Prerequisite: Junior level status or instructor permission. Crime analysis terminology, techniques, and methodologies. The role and responsibilities of a crime analyst, including the need for analysts to utilize cross-jurisdictional data and provide objective results to policymakers and law enforcement decision-makers. Offered every semester.

**CRJ 402 ADVANCED ADMINISTRATION IN CRIMINAL JUSTICE**

3, 3/0

Prerequisites: CRJ 101; upper-division status; and completion of introductory course in public administration, business management, or criminal justice administration. Advanced course in management concepts and issues applicable to the administration of criminal justice agencies. Emphasis on a systems model of organizational analysis. External environment of crime control policy and its impact upon agency operations. Internal agency management. The responsibilities and functions of crime control agency managers. Offered spring only.

**CRJ 404 WHITE-COLLAR AND CORPORATE CRIME**  
3, 3/0

Prerequisites: CRJ 101, CRJ 303, and upper-division status. Physical and financial harm caused by wayward corporations, corporate officials, employees, and other white-collar offenders. Emphasis on ethical and legal decision making and regulatory monitoring, and control of white-collar and corporate activity. Offered spring only.

**CRJ 406 CORRECTIONAL INSTITUTIONS AND PROGRAMS**

3, 3/0

Prerequisites: CRJ 101, CRJ 204, and upper-division status or permission of instructor. Comprehensive survey of adult institutional corrections systems, their programs and services, and the policies and procedures governing the operational, legal, and structural context of correctional environments. Emphasis on the research literature focused on the impacts and outcomes of various correctional intervention strategies. Offered occasionally.

### CRJ 408 PROSEMINAR IN CRIMINAL JUSTICE

3, 3/0

Investigation, examination, and discussion of topics of current interest in criminal justice. Techniques and analysis of criminal justice research. Offered occasionally.

### CRJ 409 ADVANCED ISSUES IN LAW ENFORCEMENT

3, 3/0

Prerequisites: CRJ 101, CRJ 202, and upper-division status or permission of instructor. Advanced course on contemporary issues in law enforcement. Provides insight and depth into a broad range of topics and exposes students to experts and specialists from various relevant disciplines. Offered spring only.

### CRJ 410 ORGANIZED CRIME

3, 3/0

Prerequisites: CRJ 101, CRJ 303, and upper-division status. Views on organized crime, the controversy surrounding the phenomenon, and efforts at control. Definition of organized crime, its developmental history, and models that define the structure of organized crime in the United States. Theories that explain the existence of organized crime, activities that constitute the "business" of organized crime, the relationship between organized crime and official corruption, techniques used to combat organized crime, and policy implications inherent in responses to organized crime. Offered fall only.

### CRJ 420 ADVANCED ISSUES IN PUNISHMENT AND CORRECTIONS

3, 3/0

Prerequisites: CRJ 101, CRJ 204; upper-division status. Critical analysis of contemporary policies, practices, and issues arising from the control and punishment of criminal offenders. Emphasis on the complexity of recent issues, such as disparity in criminal sentencing, use of the death penalty, institutional overcrowding, treatment of institutionalized people, and community supervision of nonincarcerated offenders. Focus of analysis will vary with interests of faculty and students. Offered fall only.

### CRJ 425 RACE, ETHNICITY, AND THE ADMINISTRATION OF JUSTICE

3, 3/0; DI14, IM14

Prerequisites: CRJ 101 and senior level status. The current state of race relations in society and the criminal justice system; the historical experiences of different racial and ethnic groups in the United States and their relation to law and the criminal justice system as victims, offenders, and officials in criminal justice institutions. Offered every semester.

Equivalent Course: AAS 425

### CRJ 430 GENDER AND THE ADMINISTRATION OF JUSTICE

3, 3/0; DI14, IM14

Prerequisites: CRJ 101 and senior level status. The mutual effects between gender and aspects of criminal justice, including victimization, criminality, law, and the criminal justice process. Includes perspectives on the historical subordination of women, and how law and the criminal justice system can be used to ameliorate that subordination. Offered every semester.

### CRJ 440 DRUGS, CRIME, AND DRUG POLICY

3, 3/0

Prerequisites: CRJ 101 and CWP 102. The nature and impact of drug abuse in America and the relationship to criminal behavior. The historical and ideological foundations of national drug-control policy as well as contemporary control and intervention strategies. Offered occasionally.

### CRJ 450 TERRORISM AND CRIMINAL JUSTICE

3, 3/0

The phenomenon of terrorism from a criminal justice perspective. The history of the phenomenon and contemporary terrorism in both its domestic and international manifestations; theories about terrorism; analytic methods for investigating and combating it, whether perpetrated by state or non-state actors. Offered every semester.

### CRJ 455 ADVANCED INTELLIGENCE ANALYSIS

3, 3/0

Prerequisite: CRJ 250. Advanced-level continuation of CRJ 250. Introduces a variety of analytical techniques; provides advanced knowledge, understanding, and application of these techniques; promotes critical thinking and report-writing skills. Offered every semester.

### CRJ 470 ADVANCED SEMINAR IN CRIMINAL JUSTICE

3, 3/0

Prerequisites: CWP 102, CRJ 101, CRJ 303, CRJ 315, upper division status, and at least 24 credit hours of criminal justice coursework. Integration of knowledge acquired throughout the criminal justice curriculum into a holistic conception of criminal justice theory, practice, research, and planning. Emphasis on developing advanced scholarship, conceptualization, and critical thinking through writing within the discipline. Offered every semester.

### CRJ 485 MOCK TRIAL

3, 3/0

Prerequisite: Upper-division status. Simulation of a trial court or appellate court proceeding involving teams of students acting as prosecutor/plaintiffs' attorneys, defense attorneys, and witnesses. Students develop case strategy, analyze evidence, integrate legal precedent, prepare a written brief, question witnesses, and present oral arguments to the court in opening and closing statements. Final project is a mock trial presentation held in a formal courtroom setting. Offered every semester.

Equivalent Courses: PSC 485, SOC 485

### CRJ 488 INTERNSHIP IN CRIMINAL JUSTICE

3-15, 3/0

Prerequisites: Senior-level standing, 3.0 GPA, and permission of instructor. A comprehensive, supervised field experience in criminal justice and related social service agencies. Requires a minimum of 10 hours of work in the agency during a 14-week period (140 total hours) and a weekly academic seminar on campus. The purpose of the internship is to integrate knowledge learned in the academic environment with the experience of day-to-day work in a professional environment. Offered every semester.

### CRJ 495 SPECIAL PROJECT

1-3, 0/0

Offered occasionally.

### CRJ 497 WORKSHOP

3, 3/0

Special workshop in Criminal Justice.

CRJ 499 INDEPENDENT STUDY  
3-12, 0/0

## Creativity and Change Leadership (CRS)

### CRS 189 TOPIC COURSE

1-3, 0/0

Lower-level topics course in Creativity and Change Leadership Studies. Offered occasionally.

### CRS 201 FOUNDATIONS OF LEADERSHIP

3, 3/0

History of leadership and leadership as an ongoing process of challenge, growth, and development. Students learn the foundational concepts of leadership, assess their own leadership styles, and discuss issues relevant to leadership. Provides opportunities for personal awareness and promotes effective leadership-skills development. Includes opportunities for the practice of leadership skills in campus and community organizations. Offer every semester.

Equivalent Courses: BUS 201, UNC 201

### CRS 205 FOUNDATIONS IN CREATIVE THINKING

3, 3/0

Recognition and nurturing of creative potential. Focus on the creative person, the creative process, the creative product, and the creative environment. Further emphasis on the interactive nature of these elements and individual application in personal and professional settings. Offered every semester.

### CRS 302 CREATIVE APPROACHES TO PROBLEM SOLVING

3, 3/0

Prerequisites: CRS 205 or CRS201, CWP 101, and CWP 101. Creative problem-solving methods and techniques. Emphasis on the application of creative problem solving to challenges, goals, and opportunities students face in their personal and professional lives. Offered fall only.

### CRS 303 CREATIVE LEADERSHIP THROUGH EFFECTIVE FACILITATION

3, 3/0

Learn and practice creativity concepts as they relate to leadership; examination of individual leadership styles and specific methods and techniques to apply concepts and skills. Offered every semester.

### CRS 304 DEVELOPING CREATIVE PROBLEM-SOLVING FACILITATION SKILLS

3, 3/0

Prerequisites: CRS 205 and CRS 302. Develop and apply facilitation and leadership skills in a variety of settings. Participate in supervised practice using creative problem-solving techniques with groups and individuals. Offered spring only.

### CRS 320 APPLICATIONS OF CREATIVITY AND INNOVATION

3, 3/0

Prerequisite: CRS 205. Exploration of creative processes within a creative environment that produce novel and useful products. The nature of creative people; examination of personal experience in the application of creativity in the arts, science, education, and business. Personal creative ability developed through class activities, readings, and interaction. Offered spring only.

### CRS 389 TOPICS IN CREATIVE STUDIES: APPLYING INTERDISCIPLINARY PRINCIPLES

3, 3/0

This interdisciplinary course examines major principles of creativity and their applications to everyday life—personal, social, professional, avocational. Explores the nature of creative persons and those factors that encourage or inhibit creative expression. Examines research for its various implications and applications. Guest speakers from a variety of disciplines examine creativity from their diverse viewpoints. Participation in the creative process in a variety of ways. Offered occasionally.

### CRS 435 EXPERIENCES IN LEADERSHIP

3, 3/0

Prerequisites: CRS 201, CRS 302, CRS 303. Capstone experience to synthesize prior course work and transition into professional leadership opportunities. Development of leadership in applied contexts through interactions with successful leaders. Self-directed activities to hone leadership skills. Articulation of a vision as a future leader in respective profession and communities. Offered annually each spring semester.

### CRS 495 SPECIAL PROJECT

1-3, 0/0

Special project in Creativity and Change Leadership.

### CRS 499 INDEPENDENT STUDY

3-15, 0/0

Independent study in Creativity and Change Leadership.

## Dance (DAN)

### DAN 189 TOPIC COURSE

1-3, 0/0

Lower level Topics Course in Dance.

### DAN 200 MODERN DANCE TECHNIQUE I

3, 2/2; AR14

The basic tenets and fundamental principles of modern dance. An understanding of the dancer as the interpretive artist through technical dance instruction, historical significance, and aesthetic discovery. Dance performance attendance is required. Offered every semester.

### DAN 201 TEACHING CREATIVE MOVEMENT

3, 2/2

Preparation to teach creative movement to various populations. Emphasis on physical exploration of dance concepts for building psychomotor, cognitive, and affective skills. Theory, method, and lesson development is examined for implementation of non-competitive creative play, structured improvisations, and dance technique. Dance performance attendance is required. Offered alternate spring semester.

### DAN 214 INTRODUCTION TO DANCE TECHNIQUES

3, 2/2; AR14

A studio course designed to introduce the novice student to the cultural and aesthetic values of dance. Physical practice of a variety of dance techniques: body as the instrument for dance, kinesthetic awareness, a codified terminology, and the influential aesthetic elements that define various dance techniques. Dance performance attendance is required. Offered every semester.



### DAN 220 BALLET TECHNIQUE I

3, 2/2; AR14

A basic appreciation of the origins of classical ballet. Students will develop an understanding of classical dance through instruction of ballet technique: the influential aesthetic elements that define basic ballet, a codified physicality and terminology, and the cultural and historical influences. Attendance at live performances augments course content and is a course requirement. Offered every semester.

### DAN 224 DANCE APPRECIATION

3, 3/0; AR14

Examination of the cultural and aesthetic values of dance. Analysis of the purpose, creative process, genres, and styles of the art form. Dance performance attendance is required. Offered every semester.

### DAN 230 DANCE TECHNIQUES FROM THE AFRICAN AMERICAN PERSPECTIVE

3, 2/2; DI14

The continuity of African American dance from traditional African to contemporary American through dance technique. Introduction to several dance forms: traditional, modern, and jazz; the cultural history that influenced these dance forms; and the contributions of significant choreographers. Dance performance attendance is required. Offered fall semester. Equivalent Course: AAS 230

### DAN 234 THE POLITICS OF BLACK DANCE IN AMERICA

3, 3/0; DI14

The development of African American dance and the contributions of African American artists through lecture and film. Emphasis on the evolution of traditional African dance forms and their influence on the contemporary dance vernacular. Dance performance attendance is required. Offered as required.

Equivalent Course: AAS 234

### DAN 244 SOCIAL DANCE FORMS

3, 2/2

An introduction to social dance as a participatory and culturally-specific dance style from the physical and historical contexts. In addition to physical practice, students will read and discuss articles. Dance performance attendance is required. Offered as required.

### DAN 250 JAZZ DANCE TECHNIQUE I

3, 2/2

Technique, studies, and compositional problems illustrating the diverse possibilities of jazz dance, with special attention to the ethnic foundation of this form. Dance performance attendance is required. Offered alternate fall semester.

Equivalent Course: AAS 250

### DAN 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### DAN 301 KINESTHETIC LEARNING METHODS AND PRACTICES

3, 3/0

Prerequisites: CWP102. Examination, application, and analysis of the methods and benefits of the kinesthetic teaching style; including educational theory, purpose, and practice. Research in designing, developing, and implementing psychomotor, cognitive, and affective skill building lesson plans using kinesthetic methods. Dance performance attendance is required. Offered alternate fall semester.

### DAN 302 MODERN DANCE TECHNIQUE II

3, 2/2

Prerequisite: DAN 200. Principles of movement in relation to dynamics, rhythm, and space. Introduction to improvisation and modern dance history; designed to develop and strengthen technical dance skills and artistry. Dance performance attendance is required. Offered spring semester.

### DAN 303 DANCE COMPOSITION

3, 2/2; CT14

Prerequisite: Instructor Permission. Techniques of composition; practical research in choreography through improvisation; creation of individual and group compositions. Dance performance attendance is required. Offered alternate fall semester.

### DAN 310 DANCE FOR MUSICAL THEATER

3, 2/2

Prerequisite: DAN 250. Emphasizes technique and history of the diverse dance forms required in the music theater. Dance performance attendance is required. Offered alternate spring semester.

### DAN 312 MODERN DANCE TECHNIQUE III

3, 2/2

Prerequisite: DAN 302. Continuation of DAN 302. Emphasis on expanding and deepening technical range, quality of movement, and creative ability through improvisation and modern dance history. Dance performance attendance is required. Offered spring semester.

### DAN 320 REHEARSAL AND PRODUCTION

1, 0/0

Prerequisite: Audition. Students participate in building a finished dance production, including audition, dance rehearsals, technical rehearsals, and performances. By audition only. May be repeated. Offered every semester.

### DAN 324 THE GLOBALIZATION OF DANCE

3, 3/0; CT14, IM14, WC14, WIIF

A survey course examining the origins and evolution of folk, social, and concert dance forms from the primitive period to contemporary time. Analysis of the role of major figures and the impact of significant events on the value of dance in society. Dance performance attendance is required. Offered alternate fall semester.

### DAN 330 BALLET TECHNIQUE II

3, 3/0

Prerequisite: DAN 220. Comprehensive examination of the technique and historical background of ballet explored in depth through studio work and lecture; emphasis on strengthening technical range and understanding of basic concepts and vocabulary. Dance performance attendance is required. Offered fall semester.

DAN 340 BALLET TECHNIQUE III  
3, 2/2

Prerequisite: DAN 330. Continuation of DAN 330. Intermediate-level ballet technique course with emphasis on applications of idiokinetics. Dance performance attendance is required. Offered fall semester.

DAN 350 TAP DANCE TECHNIQUE I  
1, 1/1

Prerequisite: Instructor Permission. First course in a two-semester sequence for majors and minors in the performing arts. Minimum two hours of outside practice weekly plus familiarity with selected readings. Students comprehend and execute an elementary vocabulary of stage tap. Dance performance attendance is required. Offered alternate spring semester.

DAN 389 TOPIC COURSE  
3, 0/0

Upper level Topics Course in Dance.

DAN 401 TEACHING DANCE  
3, 3/0; WIIF

Prerequisite: Instructor Permission. The methods and materials used in teaching dance to students of various ages and backgrounds, explored through research and practical teaching experience. Anatomical and kinesiological principles, injury prevention and treatment. Dance performance attendance is required. Offered alternate spring semester.

DAN 402 ADVANCED DANCE TECHNIQUES  
3, 2/2

Prerequisite: Instructor permission. Key principles and praxes of iconic dance practitioners and contemporary choreographers from various genres and attributes of dance. Explored through a three-dimensional perspective of theory, technical practice, and choreography and repertoire study, students reflect on how culture and personal experience impact and inspire the perspective and development of dance technique and performance. Dance performance attendance is required. Offered as required.

DAN 450 TAP DANCE TECHNIQUE II  
1, 1/1

Prerequisite: DAN 350 or Instructor Permission. Advanced vocabulary, styles, and solo/duet work. Some creative work required. Comprehend and execute a substantial portion of traditional Broadway requirements. Dance performance attendance is required. Offered alternate spring semester.

DAN 495 SPECIAL PROJECT  
1-3, 0/0

Individual Special Project in Dance. Offered every semester.

DAN 499 INDEPENDENT STUDY  
3-12, 0/0

Independent Study in Dance. Offered every semester.

## Data Science and Analytics (DSA)

DSA 201 FOUNDATIONS OF DATA-ORIENTED COMPUTING WITH PYTHON

4, 4/0; MQ14

Prerequisites: Instructor permission. Introduction to data oriented programming and algorithmic problem solving using Python. Python data structures. Data visualization. Introduction to object oriented programming. Applications to data processing, image manipulation and other. The class is hands-on and project oriented. Offered every Fall.

DSA 301 DATA SCIENCE AND ANALYTICS WITH SPREADSHEETS, DBS AND PYTHON

4, 4/0

Prerequisites: MAT 241 or instructor permission. Introduction to tools and techniques needed to collect, clean, analyze and present data that can be used in any academic discipline. Data scraping from the internet. Visualization of data using appropriate software, spreadsheets, databases, Python. Offered every spring

## Design (DES)

DES 101 INTRODUCTION TO TWO-DIMENSIONAL DESIGN

3, 1/5

Introductory course exploring the fundamental elements and principles of two-dimensional design. Technical, compositional, and creative problem-solving skill development through hands-on exploration of various two-dimensional media with an emphasis on creative design and concept development. Offered every semester.

Equivalent Course: AAD 102

DES 103 INTRODUCTION TO THREE-DIMENSIONAL DESIGN

3, 2/4

Introductory course exploring the visual, analytical, and spatial considerations of three-dimensional design. Creative problem-solving, compositional, and technical skill development through hands-on investigation of various three-dimensional materials emphasizing creative expression and concept development. Offered every semester.

Equivalent Course: AAD 103

DES 108 DIGITAL DESIGN AND FABRICATION

3, 2/0

Digital fabrication application of vector graphics, pixel graphics, and computer aided three-dimensional modeling for digital fabrication processes, including 3D printing, and laser cutting with an emphasis on creative design and concept development. Offered every semester.

Equivalent Course: AAD 105

DES 114 WORKSHOP IN CRAFTS

3, 1/5; AR14

Hands-on creative studio experience in ceramics, fibers, metals/jewelry, or wood/furniture design. Non-art majors only.

DES 189 TOPIC COURSE

1-9, 0/0

Topics in art and design studio or history. Offered occasionally.

### DES 190 DESIGN SYMPOSIUM

3, 3/0; AR14

Introductory design course open only to non-majors. Basic concepts and language of design, the application of those concepts in the human environment, and the historical and cultural reference to those concepts. Offered every semester. Equivalent Course: AAD 190

### DES 215 INTRODUCTION TO DESIGN HISTORY

3, 3/0

General introduction to design history and criticism, tracing the evolution of form and meaning from primitive cultures through the contemporary world. Special emphasis on the Industrial Revolution and modern and postmodern culture.

### DES 220 CERAMICS I

3, 1/5

Exploration of clay as a medium of expression. Methods of forming. Preparation and application of glaze. Firing; theory, study of form and function. Offered every semester.

### DES 230 INTRODUCTION TO JEWELRY MAKING

3, 1/5

Exploration of materials and processes in jewelry making, emphasizing creative design. Offered every semester. Equivalent Course: DES 230

### DES 242 FIBERS I

3, 1/5

Introduction to traditional and current trends in weaving and surface design, including table-loom weaving, dyeing, and silkscreen printing. Assignments develop good design through creative expression. Offered every semester.

### DES 250 WOOD DESIGN I

3, 1/5

Wood as a medium for expression and object design; technical and aesthetic problems. Offered every semester. Equivalent Course: DES 250

### DES 270 VISUAL COMMUNICATION I

3, 1/5

Prerequisite: DES 277 or AAD 104. Introductory course in communication design involving basic design problems including logotype, stationary, and page layout. Examination of design and printing processes, as well as professional practices and issues. Offered every semester. Equivalent Course: DES 270

### DES 271 LETTERING AND TYPOGRAPHY I

3, 1/5

Prerequisite: DES 277 or AAD 104. Uses of typographic forms in graphic design; problems in expression and appropriate application and layout; type specification, indication, copy fitting; origins of the Western alphabet. Offered every semester.

### DES 277 COMPUTER GRAPHICS I

3, 1/5

Introduction to the Macintosh computer as a graphic design tool. Develop a working understanding of a graphic design page-layout and drawing program. Class sessions include visual presentations, hands-on tutorials, and critiques of assignments. Offered spring semester.

### DES 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### DES 307 COLOR THEORY

3, 1/5

Prerequisite: DES 101. Origins, meaning, and dimensions of color; lectures and studio problems in various media, exploring the compositional effects of color. Offered every semester.

Equivalent Course: DES 307

### DES 312 HISTORY OF CRAFT: INDUSTRIAL REVOLUTION TO THE PRESENT

3, 3/0; WIIF

Prerequisite: FAR104. Historical and theoretical foundations of crafts from the Industrial Revolution to the present. Developments in crafts in traditional forms, hand-based production methods, new technologies, new media and new concepts of craft, and specific cultural and intellectual contexts. Offered fall only.

### DES 314 HISTORY OF GRAPHIC DESIGN: INDUSTRIAL REVOLUTION TO THE PRESENT

3, 3/0

Prerequisite: FAR104 or permission of instructor.

Examination of the history and theoretical foundations of graphic design from the Industrial Revolution to the present. Developments in graphic design are considered in relation to new technologies and new media and to specific cultural and intellectual contexts. Offered spring only.

### DES 317 DESIGN IN THE TWENTIETH CENTURY

3, 3/0

Prerequisite: DES 215 or AAD 150 or permission of instructor. Historical and theoretical foundations of design in the twentieth century, concentrating on developments in graphic, industrial, and craft design from the 1890s to the present, and emphasizing the unique conditions of the present century with respect to new technology and new media.

### DES 320 CERAMICS II

3, 1/5

Prerequisite: DES 220. Exploration of ceramic form, glaze, and firing methods through assigned problems and individual interests. Lecture and laboratory in glaze materials and glaze design. Course may be repeated up to six credits. Offered every semester.

Equivalent Course: DES 320

### DES 321 CERAMICS: JUNIOR STUDIO

3-12, 1/5

Prerequisite: DES 320. Advanced study and experience in the total ceramic process through assigned problems according to individual personal interests. Course may be repeated up to six credits. Offered every semester.

### DES 329 ENAMELING FOR JEWELRY

3, 1/5

Prerequisite: DES 230. Exploration of traditional and contemporary methods of enameling for jewelry design. Offered occasionally.

### DES 330 APPLIED JEWELRY TECHNIQUES

3, 1/5

Prerequisite: DES 230. Basic and advanced jewelry techniques including lost-wax casting and stone setting. Continued emphasis on the personal, conceptual, and creative development of jewelry design. Offered every semester. Equivalent Course: DES 330

**DES 331 JEWELRY: JUNIOR STUDIO**

3-12, 1/5

Prerequisite: DES 330. Advanced exploration of materials and processes used in jewelry making with emphasis on design aspects. Individually selected projects. Course may be repeated up to nine credits. Offered every semester.

Equivalent Course: DES 331

**DES 336 METALSMITHING**

3, 1/5

Prerequisite: DES 235 or DES 330. Advanced concentration in metalworking as a continuation of forming techniques introduced in DES 235. Offered spring only.

**DES 337 METALSMITHING: JUNIOR STUDIO**

3-12, 1/5

Prerequisite: DES 336. Practical application of metalworking techniques with emphasis on raising, forging, welding, riveting, casting, spinning, and other forming methods. Parallel study of leading designers, craftspeople. Tutorial relationship with instructor. Extra class assignments, including minimum studio hours equal to class hours. Offered spring only.

**DES 338 COMPUTER THREE-DIMENSIONAL MODELING AND RENDERING**

3, 1/5

Prerequisites: DES 101 and DES 103. Exploration of the capabilities of computer modeling and rendering software, especially for craft area majors. Offered spring only.

**DES 342 FIBERS II**

3, 1/5

Prerequisite: DES 242. Intermediate exploration in traditional and experimental techniques of weaving and surface design, including floor-loom weaving, dyeing and silkscreen printing with an emphasis on creative expression. Offered every semester.

**DES 344 FIBERS: JUNIOR STUDIO**

3, 1/5

Prerequisite: DES 342. Study and experience in complex weaving and surface design, including multiple-harness weaving and application of dyeing, printing, and mixed media techniques; aesthetic and functional considerations. Course may be repeated up to six credits. Offered every semester.

**DES 350 WOOD DESIGN II**

3, 1/5

Prerequisite: DES 250. Exploration into the design and fabrication of wooden objects. Emphasis on developing design and craftsmanship skills through assigned problems. Offered every semester.

Equivalent Course: DES 350

**DES 351 WOOD DESIGN: JUNIOR STUDIO**

3-12, 1/5

Prerequisite: DES 350. Design and creation of a major project in wood, approached from the viewpoint of the designer-craftsperson, using a range of techniques and hand, power, and machine tools as needed. Course may be repeated up to six credits. Offered every semester.

Equivalent Course: DES 351

**DES 370 VISUAL COMMUNICATIONS II**

3, 1/5

Prerequisite: DES 270. Design problems in visual communication. Emphasis on creative problem solving and appropriate application to promotional and editorial communication.

**DES 374 ADVERTISING DESIGN**

3-6, 1/5

Prerequisite: DES 277. Principles of advertising design as visual communication, motivation, and persuasion. Problems in advertising and publication design. Illustration, media, and techniques. Typographic design and reproduction processes. Offered fall semester.

**DES 377 COMPUTER GRAPHICS II**

3, 1/5; IM14

Prerequisite: DES 277 and AAD 104. Intermediate-level course using computer-imaging programs. Creative problem solving with photomontage, posters, and publication design assignments. Visual presentations, hands-on tutorials, and critiques of assignments. Offered every semester.

Equivalent Course: DES 478

**DES 378 WEB DESIGN 1**

3, 2/4

Prerequisite: DES 277 or AAD 104. Introduction to interactive Web design from the perspective of communication design. Introduces the student to the history of the Internet, industry-standard site-creation, software, and testing and evaluation. Integrates design aesthetics information, organization, image preparation, and intuitive interface design and navigation. Offered fall semester.

**DES 379 MOTION DESIGN**

3, 3/0; IM14

Prerequisite: DES 277 or AAD 104. Exploration and integration of animation methods including hand-drawn, stop motion, and digital. Motion and sound added to graphics, typography and image. History of motion design and animation. Integrates design aesthetics, sequential information presentation, and video preparation for various distribution methods. Offered spring semester.

Equivalent Courses: DES 479, DMA 379

**DES 380 ILLUSTRATION**

3, 1/5

Prerequisite: DES 270. Creative problem solving illustration assignments. In-depth exploration of illustration media and techniques. Examination of professional practice and business issues. Offered every semester.

**DES 382 DIGITAL 3D 1**

3, 2/0

Prerequisite: DES 277 or AAD 104. Creation of digital 3D objects and environments for print, video and motion design. Modeling, lighting and surfacing objects in the CG (Computer Graphics) environment using industry standard software.

Equivalent Course: DES 480

**DES 389 TOPICS COURSE**

3, 0/0

Offered occasionally.

**DES 414 SENIOR SEMINAR/EXHIBITION**

4, 3/3; CT14, IM14, WIIF

A series of lectures and discussions concerning topics such as self-presentation concepts. Job and professional interviews. Business practices, recordkeeping, and taxes. Legal contracts and copyrights. Exhibitions and promoting personal work. Offered every semester.

### DES 421 CERAMICS: SENIOR STUDIO

3-12, 1/5; CT14, IM14, WIIF

Prerequisite: DES 321. Development and presentation of the student's personal direction in clay, culminating in a portfolio presentation and a final show. Course may be repeated up to nine credits.

### DES 431 SENIOR JEWELRY STUDIO

3, 1/5; CT14, IM14, WIIF

Prerequisites: DES 331, instructor permission. A focus on advanced conceptual and technical applications related to the design and fabrication of jewelry. Emphasis on the culmination of aesthetics and concept resulting in a distinct individual style. Offered every semester.

### DES 444 FIBERS: SENIOR STUDIO

3, 1/5; CT14, IM14, WIIF

Prerequisites: DES 344, instructor permission. Concentration of studio work in surface design, mixed media and weaving. Students plan and execute a series of problems and projects in consultation with the instructor, leading to an exhibition. Portfolio preparation for graduating seniors. Offered annually.

### DES 451 WOOD DESIGN: SENIOR STUDIO

3-12, 1/5; CT14, IM14, WIIF

Prerequisite: DES 351. Concentration of studio work by senior wood majors. Students plan and execute a series of problems and projects in consultation with the instructor. Course may be repeated up to twelve credits.

### DES 472 WEB DESIGN II

3, 2/4; CT14, WIIF

Prerequisites: Communication Design Major, Junior/Senior standing, DES 378. Intermediate concepts and skills involved in designing Internet-based interactive media. Builds on technical and theoretical concepts of DES 378, Web Design I. Current technical standards in web design and online publishing will be covered including multi-device interface design, content management, social media integration and accessibility.

### DES 473 GRAPHIC DESIGN

3-9, 1/5; CT14, WIIF

Prerequisites: DES 377 and DES 380. Advanced problems in advertising, publication, and packaging design. Materials, techniques, and computer processes used in preparation of visual and design presentations/mechanicals. Emphasis on individual solutions to problems typical of those confronting the professional graphic designer. Offered fall semester.

### DES 475 GRAPHIC DESIGN PRACTICUM

1-6, 1/5

Prerequisite: Completion of all required courses in graphic design specialization. Practical experience in an advertising agency, design studio, or corporate design office under the sponsorship of an art director, working two days a week for 6 credit hours. Or experience with practical problems in a simulated agency situation, working 10 hours a week for 3 credit hours. Admission by permission of graphic design advisers after portfolio review. Offered every semester.

### DES 478 WEB DESIGN II

3, 2/4

Equivalent Course: DES 377

### DES 479 MULTIMEDIA COMPUTER DESIGN

3, 0/6

Prerequisite: DES 377. Introduction to computer design and the authoring process in multimedia. Experience with digital images, video, and sound using current software, culminating in creative interactive presentations and Web page documents. Offered every semester.

Equivalent Course: DES 379

### DES 480 ILLUSTRATION II

3, 1/5

Prerequisite: DES 380. Advanced problems and creative solutions in editorial and advertising illustration using computer drawing software programs. In-depth examination of business issues and professional practice in the illustration field. Offered every semester.

Equivalent Course: DES 382

### DES 488 INTERNSHIP

1-12, 0/0

Prerequisite: Senior Status, Art and Design Majors, and instructor permission. Guided, supervised exposure to professional design operations through on-the-job experience in an authorized design firm, department, studio, or showroom. For 3 credit hours, student completes 120 contract hours, provides a written report of the work experience, and receives written evaluation from the employer. Offered every semester.

### DES 489 MOTION DESIGN 2

3, 2/0

Prerequisite: DES 379. Integrates type, graphics and image utilizing the language of motion, emphasizing story and ideation in time-based media. Real-world applications include title/credit sequences, product pre-visualization, interactive interfaces, advertising, and entertainment.

### DES 495 SPECIAL PROJECT

1-3, 1/5

Offered occasionally.

### DES 499 INDEPENDENT STUDY

3-12, 1/5

Offered every semester.

## Dietetics and Nutrition (NFS)

### NFS 100 INTRODUCTION TO FOOD PREPARATION

3, 2/2

A study of the composition of food and scientific principles of food preparation and cookery. Students learn food selection, storage, and preparation skills. Lab included. Offered every semester.

### NFS 102 INTRODUCTORY NUTRITION

3, 3/3; NS14

A basic science in human nutrition focuses on knowledge of chemical structure, dietary sources, requirements, functions, digestion, absorption, transportation, utilization, and excretion of essential nutrients and other substances. Offered every semester.

### NFS 105 FOOD AND PEOPLE

3, 3/0

The use of technology and science for food production, preservation, processing, and safety profoundly influences nutritional, economic, social, ethical, legal, and personal issues. Concerns about the impact of technology on environment, health, culture, and hunger/malnutrition are addressed. Course prepares students to understand the concepts of food, nutrition, food culture, and food safety for optimal health. Offered every semester.

### NFS 108 FOOD CULTURE AND CIVILIZATION IN THE FAR EAST

3, 3/0; NW14

A study of food culture in context with civilizations of the Far East. Focuses on the relationship between the development of food habits/culture and civilization as influenced by political, socioeconomic and cultural factors, and international relations. Offered every semester.

### NFS 110 APPLIED PRINCIPLES OF MANAGEMENT IN DIETETICS/FOOD SERVICES

3, 3/0

Management principles and concepts explored through class assignments that simulate real-world situations and prepare students for advanced study and application in management. Offered every semester.

### NFS 189 TOPICS COURSE

1-3, 1/0

Current topics in dietetics and nutrition. Offered occasionally.

### NFS 200 APPLIED FOOD CHEMISTRY

1, 0/2

Prerequisites: NFS 100, NFS 102, CHE 112. This course will examine food and the ways it is modified based on food trends. Types of evaluation techniques such as recipe analysis, recipe adaptation and market surveys will be examined. Labwork will explore the application of sensory evaluations and chemical analyses to recipes. Offered spring only.

### NFS 210 FOOD SERVICE SYSTEMS MANAGEMENT IN HEALTH CARE

3, 3/0

Prerequisite: NFS 110. In-depth analysis of the procurement process, menu development, food production and delivery, quality standards, and financial management of food service systems and related subsystems. Offered fall only

### NFS 211 APPLIED MANAGEMENT IN DIETETICS I

3, 3/0

Prerequisites: Majors only. Second of a three course sequence. Focuses on concepts and practices consistent with the practice of human resource management, financial management, safety, and infection control as they apply to health care food service management. Assignments prepare students to become skilled in specific areas of dietetics practice and food service management. Offered spring only.

### NFS 230 INTRODUCTION TO DIETETICS

2, 0/0

Overview of the dietetics profession: career options, professional development, career portfolio development, professional organization, code of ethics, standards of practice, professional values, creativity, Academy of Nutrition and Dietetics position papers, introduction to legislative process, professional issues and trends, and professional references and resources. Offered fall only.

### NFS 280 INTRODUCTION TO COMPLEMENTARY AND ALTERNATIVE MEDICINE

3, 3/0

Prerequisite: NFS 102. Introduction to complementary and alternative medicine (CAM), integrative and functional medicine, CAM modalities that include mind-body medicine, naturopathy of herbs and dietary supplements, and physical medicine for prevention of chronic diseases. Review on the regulatory and legal policies on the use of CAM therapies and products. Offered occasionally.

### NFS 300 FOOD PROCESSING I

2, 2/0

Prerequisite: NFS 200. A study of the commercial food preservation and packing techniques, storage, food safety and food laws, and genetic engineering. Offered fall only.

### NFS 302 ADVANCED NUTRITION

3, 3/0

Prerequisites: NFS 102, CHE 112, CHE 321, BIO 308 or BIO 311 and BIO 312. Recommended co-requisite: CHE 322. Integrates the sciences of inorganic chemistry, organic chemistry, anatomy, physiology, genetics and human nutrition. Preparatory course for Medical Nutrition Therapy including the study of macronutrient and micronutrient metabolism, nutrient control of gene expression, energy metabolism and physiologic role of fiber. Offered spring semester only.

### NFS 310 PERSONNEL MANAGEMENT IN DIETETICS/FOOD SERVICES

3, 3/0

Prerequisite: NFS 210. Management concepts and practices consistent with the management of human resources in a health care organizational setting. The application of operational strategy in terms of fulfilling the mission of an organization competing in today's market. Offered spring only.

### NFS 311 APPLIED MANAGEMENT IN DIETETICS II

3, 3/0

Prerequisites: NFS 211. Majors only. Third of a three course sequence. Focuses on food service systems and related subsystems involving an in-depth analysis of menu development and modification for disease states. Procurement, food production, distribution and service, food safety, and facility design.

### NFS 315 LIFE CYCLE AND COMMUNITY NUTRITION I

3, 3/0

Prerequisites: NFS 102. A study of the physiological changes during pregnancy, lactation, and older adult aging; growth and development during infancy, preschool, school age and adolescence; the food and nutrition needs, specific nutritional concerns and nutritional services and nutritional programs available. Offered spring only.

### NFS 316 LIFE CYCLE AND COMMUNITY NUTRITION II

3, 3/0; WIIF

Prerequisites: NFS 315. A study of the nutritional issues and chronic disease prevention in adult life; community nutrition services available to adults and identifying and developing community nutrition programs. Offered fall only.

## NFS 330 INTEGRATIVE AND FUNCTIONAL NUTRITION

1, 1/0

Prerequisites: NFS 102 or equivalent and junior or senior standing or permission of instructor. A one-credit course provides an introduction to integrative and functional nutrition (IFN) and complementary and alternative medicine (CAM). The course focuses on dietary supplements that include vitamins, minerals, functional foods, phytochemicals, nutraceuticals for disease prevention and treatment. An emphasis will be given to the regulatory (legal, ethical and moral) issues of dietary supplements. The goal of the course is to prepare students to have competency in IFN as a part of medical nutrition therapy. Offered spring only.

## NFS 334 CONTEMPORARY NUTRITION

3, 3/0

Explanation of nutrition. The functions, requirements, food sources, and results of deficiency and excess for each nutrient. Topics of current interest, such as weight control. Food fads and government nutrition policies. Not open to dietetics majors.

## NFS 389 TOPICS COURSE

1-3, 1/0

Current advanced topics in nutrition and dietetics. Offered occasionally.

## NFS 401 MEDICAL NUTRITIONAL THERAPY I

4, 4/0

Prerequisites: NFS 302, CHE 322, BIO 308, BIO 309. First of four course sequence examining interrelationships of pathophysiology, biochemistry, genetics and nutrition as related to medical nutritional therapy. Emphasis will be given to the nutrition care process, nutritional assessment and role of nutrition in preventing and treating diseases/disorders: obesity/weight management, cardiovascular disease, drug-nutrient interactions, and disordered eating. Offered fall only.

## NFS 402 MEDICAL NUTRITIONAL THERAPY II

3, 2/2

Prerequisites: NFS 401 and for DEP co-requisite NFS 446. Second of a three course sequence examining the interrelationships of pathophysiology, biochemistry, genetics and nutrition as related to medical nutritional therapy. Emphasis on role of nutrition in preventing and treating disease/disorders: diabetes mellitus, hypoglycemia, renal, dysphagia, chronic obstructive pulmonary disease, and cystic fibrosis. Offered spring only.

## NFS 403 MEDICAL NUTRITIONAL THERAPY III

3, 2/2

Prerequisites: NFS402 and for DEP co-requisite NFS 447. Third of a three-course sequence examining the interrelationships of pathophysiology, biochemistry, genetics, and nutrition as related to medical nutritional therapy (MNT). Addresses MNT for cancer, upper and lower gastrointestinal (GI) disorders, exocrine pancreas, hepatobiliary, and pulmonary disease, metabolic stress (including sepsis, SIRS, head trauma, and burns), acid/base disorders, acquired immune deficiency syndrome (AIDS), parenteral and enteral nutrition. Offered fall only.

## NFS 405 PRINCIPLES OF NUTRITION EDUCATION

2, 1/2

Prerequisites: NFS 316 and NFS 401. Theories and methods of learning communication, and counseling as they apply to nutrition education and counseling settings; development, implementation, and assessment of instructional unit utilizing various forms of multimedia. Offered spring only.

## NFS 411 APPLIED MANAGEMENT IN DIETETICS

2, 1/2

Prerequisites: NFS 311. Majors only. Focuses on the principles of health care quantity recipe development, therapeutic modification of recipes and food production, with hands on food preparation opportunities. Students will learn the importance of facility equipment and design. Students will be taught principles of food safety and become ServSafe® certified.

## NFS 419 INTRODUCTION TO CLINICAL PRACTICE

2, 2/0

Introduction to medical terminology and abbreviations, use of medical records, medical- record documentation, applying principles of interviewing and counseling to clinical practice, usual hospital diets, and reimbursement for nutritional therapy. Offered fall only.

## NFS 420 DIETETIC EXPERIENCE

3, 1/0; WIIF

Prerequisites: NFS 403. Formalized observation/experience in a variety of health care settings such as clinical, community, food service, regulatory agencies, etc.; research paper and consumer education. Offered spring only.

## NFS 430 INTRODUCTION TO NUTRITION RESEARCH

3, 3/0; CT14, IM14

Prerequisites: NFS 402, MAT 311 or ECO 305. An introduction to nutrition research. Students explore various research designs and characteristics of quantitative nutrition studies. Places emphasis on the evidence analysis process with regard to clinical trials and use of information technologies to locate and apply evidence-based guidelines. Offered fall only.

## NFS 445 NUTRITION CARE A

3, 0/2

Prerequisites: NFS 302, NFS 315. Corequisites: NFS 316, NFS 401. First in a series of nutritional care courses promoting professional development for dietetic practice. Emphasis on basic skills for a professional role and application of normal nutrition knowledge. Interviewing skills, use of dietary tools and techniques, and planning and teaching nutrition education classes are fostered through observation and practice. Clinical experiences with well individuals throughout the life span provide opportunities for learning and self-evaluation. Clinical dress code required. Offered fall only.

## NFS 446 NUTRITION CARE B

3, 0/0

Prerequisite: NFS 445. Corequisite: NFS 402. Second in a series of supervised experiential learning clinical courses organized into three rotations. Students implement the nutrition care process with beginning skills in pediatric acute care, adult tertiary care, and community nutrition counseling settings. Students practice communication appropriate for health care settings. Clinical dress required. Offered every spring.

NFS 447 NUTRITION CARE C  
5, 0/15

Prerequisite: NFS 446. Corequisite: NFS 403. Third in a series of experiential learning clinical courses. Implementation of the nutrition care process with intermediate level skills. Organized in three health care setting rotations. Application of medical nutrition therapy, interprofessional communication, nutrition counseling strategies, and beginning skills in parenteral/enteral nutrition. Clinical dress required. Offered every fall.

NFS 448 NUTRITION CARE D  
5, 1/0

Prerequisites: NFS 403 and NFS 447. The fourth in a series of supervised experiential learning clinical nutrition care courses. Emphasis on independence in applying evidence-based medical nutrition therapy including nutrition education to patients in an acute care setting. Clinical experiences include parenteral and enteral nutrition. Clinical dress required. Offered every spring.

NFS 449 NUTRITIONAL CARE E (NUTRITIONAL CARE OF LONG-TERM PATIENTS)  
2, 0/0

Prerequisites: NFS 447 and co-requisites NFS 448, NFS 450 and NFS 451. Long-term care as a health delivery system; provide nutritional care to chronically ill patients in a long-term care facility. Clinical dress code required. Offered spring only.

NFS 450 SENIOR PRACTICUM IN DIETETICS  
4, 0/0

Prerequisites: NFS 447 and clinical faculty permission. Co-requisites: NFS 448, NFS 449, and NFS 451. Supervised planning, implementation, and evaluation of professional practice goals in a selected area of dietetic practice, such as acute care, long-term care, nutrition education, or community-service programs; minimal supervision. Clinical dress code required. Offered spring only.

NFS 451 SPECIALTY PRACTICE  
1, 0/3

Prerequisites: NFS 447 and co-requisites NFS 448, NFS 449, and NFS 450. Participation in dietetic practice for a selected area. Clinical dress code required. Offered spring only.

NFS 471 EXPERIENCES IN HEALTH CARE FOOD SERVICE SYSTEMS  
3, 3/0

Prerequisite: NFS 311. Permission of instructor. Application of knowledge and principles of food systems management in a health care facility. Emphasis on functions of a food service system, human resource management, quality assurance program, and cost analysis activities. Clinical dress code required. Offered summer only.

NFS 495 SPECIAL PROJECT  
1-3, 0/0

Special project in Dietetics and Nutrition.

NFS 497 MICRO-COURSE: "PANACHE"--THE FOOD SERVICE PROFESSION  
2, 0/0

Special workshop in Dietetics and Nutrition.

NFS 499 INDEPENDENT STUDY  
3-12, 0/0

Offered occasionally.

## Digital Media Arts (DMA)

DMA 150 INTRODUCTION TO DIGITAL MEDIA  
3, 3/0

Introductory survey to digital media authoring tools. Students gain basic skills for creating digital media works including manipulated imagery, video, animation, and interactive projects. Places an emphasis on learning the metaphors and concepts of digital authoring software in order to make self directed study more effective. Offered every semester. Equivalent Course: ALT 150

DMA 295 SPECIAL PROJECT  
1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

DMA 379 MOTION DESIGN I  
3, 3/0

Prerequisite: DES 277. Exploration and integration of animation methods including hand-drawn, stop motion, and digital. Motion and sound added to graphics, typography and image. History or motion design and animation. Integrates design aesthetics, sequential information presentation, and video preparation for various deployments, e.g. DVD, web/mobile and screen. Offered every semester. Equivalent Course: DES 379

DMA 489 MOTION DESIGN II  
3, 2/0

Prerequisite: DMA379 or DES 379. Integrates type, graphics and image utilizing the language of motion, emphasizing story and ideation in time-based media. Real-world applications include title/credit sequences, product pre-visualization, interactive interfaces, advertising, and entertainment. Equivalent Course: DES 479

## Digital Music Production (DMP)

DMP 200 TECHNICAL LISTENING I  
1, 3/0

Practicing technical listening skills, essential to applying recording techniques and signal processors in professional audio productions. Students will be able to identify bands of the audible frequency spectrum, their sonic characteristics, and their influence on recordings of various instruments.

DMP 201 TECHNICAL LISTENING II  
1, 3/0

Prerequisites: DMP 200. Further practice of technical listening skills, essential to the application of recording techniques and signal processors in professional audio productions. Focus on the effects of dynamics and data compression, as well as detailed frequency band recognition. Offered every spring.



**DMP 221 INTRODUCTION TO SOUND RECORDING AND REINFORCEMENT**

3, 3/0

Prerequisite: Instructor permission. Introduction to the history, technology, and future of analog and digital audio systems and their application. The physics of sound and the art and science of live sound reinforcement and recording including acoustics, microphone selection and placement, signal processing, mixing, loudspeaker design, editing, digital audio workstation software, MIDI, and sound system design for live venues. Offered fall only.

**DMP 222 MUSIC BUSINESS**

3, 3/0

An introduction to the fundamental aspects of the music business: music publishing, copyright, artist management, concert promotion, contracts, and career development. Offered annually.

**DMP 250 INTRODUCTION TO MIDI AND DIGITAL AUDIO**

3, 3/0

Seminal concepts in digital music production central to the use of MIDI (Musical Instrument Digital Interface) hardware and software, and digital audio. Hands-on learning and operation of fundamental electronic music hardware used for audio production. Introduction to audio software applications for music sequencing, audio editing and audio mixing. Offered every fall.

**DMP 295 SPECIAL PROJECT**

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**DMP 300 ANALYTICAL LISTENING**

1, 3/0

Prerequisites: DMP 201. An analysis of music recordings from various time periods and genres based on several production parameters. This course examines how different elements and approaches to music production function within the artistic context, and analyzes the way technical tools and choices made during the creation process impact the sonic outcome. Offered spring semester only.

**DMP 321 RECORDING TECHNIQUES**

3, 3/0

Prerequisite: DMP 221 or instructor permission. Examination of electronic audio systems and their application, including the art and science of sound recording and reinforcement of instrumental and vocal music in live and studio situations. Topics include practical applications of microphone selection and placement, signal processing, mixing, amplification, loudspeaker types, digital audio editing software, MIDI, and sound system design for live venues. Offered spring only.

**DMP 331 INTERMEDIATE RECORDING**

3, 3/0

Prerequisites: Acceptance into DMP minor, DMP 321. A hands-on approach to digital audio recording and production techniques including recording, microphone techniques, editing, and mixing using professional recording software. Student led recording sessions. Offered fall only.

**DMP 332 THEORY AND ANALYSIS OF POPULAR MUSIC I**

3, 3/0

Prerequisites: MUS 231. The first course in a sequence addressing theoretical concepts, formal design, and compositional techniques of music rooted in 17th and 18th century western art music, learned through the study of their influence and the examination of their application in tonal and modal popular music and jazz repertoire. Offered every fall.

**DMP 333 THEORY AND ANALYSIS OF POPULAR MUSIC II**

3, 3/0

Prerequisites: MUS 332. Theory and analysis of compositional strategies, musical styles and aesthetic trends rooted in 19th and 20th century western art music, learned through the study of their influence and the examination of their application in tonal and modal popular music and jazz repertoire. Offered fall semester only.

**DMP 340 HISTORY AND AESTHETIC TRENDS OF ELECTRONIC MUSIC**

3, 3/0

Prerequisite: Majors and minors only. An introduction to the history, development, performance practice, and aesthetics of music involving electronics and computers. The course covers the origins and evolution of the most relevant techniques and technologies utilized by producers of electronic music, and the ways in which these tools have influenced musical aesthetics. Offered Alternating Years

**DMP 341 ADVANCED RECORDING**

3, 3/0

Prerequisites: Acceptance into DMP Minor, DMP 331. In-depth study of recording techniques and tools used in the modern recording industry, advanced mixing techniques used in commercial music, critical listening and music analysis from contemporary recorded music. Student recording, performance and engineering. Offered spring only.

**DMP 350 ELECTRONIC MUSIC COMPOSITION I**

3, 2/2

Prerequisite: Acceptance into DMP Minor. The creative use of sound and music through the exploration of technology, history, theory, and practice of electronic music since the 1920s. Provides students with a wide range of technical, theoretical, and aesthetic concepts aimed at developing and strengthening music composition skills. The technological nature of the class encompasses the learning of fundamental software tools while favoring a critical-thinking approach to the unique expressive power of electronic music composition. Offered fall only.

**DMP 351 ELECTRONIC MUSIC COMPOSITION II**

3, 3/0

Prerequisites: Acceptance into DMP Minor, DMP 350. Focus on the creative use of sound, music and video through the exploration of key software tools for electronic music composition, music performance, mixed media, and sound installations. Advanced technical and theoretical knowledge of electronic music while developing music composition skills. Offered annually.

### DMP 352 SOUND SYNTHESIS

3, 3/0

Prerequisite: DMP minor. Exploring the creation and sculpting of analog and digital sound through the control and manipulation of hardware and software music synthesizers. Offered annually.

### DMP 360 DIGITAL MUSIC ENSEMBLE

1, 3/0

Prerequisite: Instructor Permission. Electronic music performance in an ensemble setting with analog and digital musical instruments, portable computing devices and custom digital controllers. Emphasis on new approaches and skills for the performance and composition of electronic and computer music. Offered every semester.

### DMP 361 SYNTHESIZER ORCHESTRA

1, 3/0

Prerequisite: DMP 352 or Instructor permission. Perform a wide range of electronic music repertoire in an interactive ensemble setting, using analog and digital hardware synthesizers. Explore new sonic landscapes through different audio synthesis and audio processing techniques. Offered every semester.

### DMP 389 TOPIC COURSE

1-3, 0/0

Course offered periodically on various topics related to Digital Music Production, Digital Music Composition, Audio Recording, Sound Mixing, Audio Production or other areas of study related to Digital Music. Offered occasionally.

### DMP 430 GAME AUDIO

1, 3/0

Prerequisite: DMP 352. Create and design audio and music for video games, gaming applications and interactive media. Study audio gaming engines in adaptive and generative music systems. Examine different audio middleware tools and their integration with software gaming platforms. Gain hands-on skills for the pre-production and post-production stages of game audio production. Offered occasionally.

### DMP 431 ADVANCED MIXING TECHNIQUES

3, 3/0

Prerequisites: DMP minor, DMP 341. Advanced mixing techniques to be utilized across multiple genres of music, covering signal flow, audio processing, analytical listening skills and software for music production. Offered annually.

### DMP 432 LIVE SOUND

3, 1.5/1.5

Prerequisites: DMP 341. Advanced course in live sound reinforcement and system design and optimization, based on the physical parameters of the performance venue. Creative technical strategies to enhance musical performance in live venues. Offered spring semester only.

### DMP 450 INTERACTIVE COMPUTER MUSIC

3, 3/0

Prerequisite: Acceptance into DMP Minor, DMP 351. Integrating computers with digital controllers, smart phones, tablets and off-the-shelf gaming devices; exploring real-time interactive music performance, sound synthesis and music composition; concepts and skills for analog and digital synthesis; theoretical and practical knowledge in real-time sound processing techniques. Offered occasionally.

### DMP 491 CAPSTONE IN DIGITAL MUSIC PRODUCTION

1-3, 0/0

Prerequisite: DMP 350 and permission of the instructor. Independent capstone project under the direction of an instructor.

### DMP 495 SPECIAL PROJECT

1-3, 0/0

Offered every semester.

### DMP 499 INDEPENDENT STUDY

3, 0/0

## Economics (ECO)

### ECO 101 THE ECONOMIC SYSTEM

3, 3/0; SS14

Overview course. Development of fundamental economic concepts, basic economic institutions and their history, and contemporary economic issues. Supply and demand, markets, gross domestic product (GDP), inflation and recession, and the role of government. Economic issues such as energy, environment, education, and health care included when appropriate. Will not count toward the credit hour requirement of majors. Offered every semester.

### ECO 103 ECONOMIC HISTORY OF THE UNITED STATES

3, 3/0; AH14

The history of the United States from an economic perspective. U.S. history is understood by studying the development of economic institutions and social change. Causes and effects of changing labor organization and relations, production technique, business and industrial organization, trade patterns, and economic policy. Offered every semester.

### ECO 104 HISTORY OF ECONOMIC DEVELOPMENT IN THE THIRD WORLD

3, 3/0

A history of economic development in Asia, Africa and Latin America for those with no previous college-level background in economics. The course concentrates on the experience of formerly colonized countries over the past 200 years as part of a broad outline of world economic history since 1492. Offered occasionally.

### ECO 189 TOPICS COURSE

1-3, 1/0

Current topics in Economics. Offered occasionally.

### ECO 201 PRINCIPLES OF MACROECONOMICS

3, 3/0; SS14

The major economic forces-consumer expenditure, business investment, and government spending-and their influence on national income. Money and banking, monetary and fiscal policies, inflation and recession, economic growth, and international monetary problems. Either ECO 201 or ECO 202 may be taken first. Offered every semester.

### ECO 202 PRINCIPLES OF MICROECONOMICS

3, 3/0; SS14

Individual units in the economy-consumers, firms, and resource owners-and how their decisions influence market prices and industrial output. Supply and demand, competition and monopoly, corporations, capitalism and socialism, labor, and international trade. Either ECO 201 or ECO 202 may be taken first. Offered every semester.

### ECO 220 ECONOMICS OF SPORTS

3, 3/0

The principles of economic analysis through investigation of the sports industry. Profits, labor conflicts, and other special features of professional and collegiate sports. Offered occasionally.

### ECO 300 LABOR ECONOMICS

3, 3/0

Prerequisite: ECO 202. Competing theories of labor-market operation in market economies. Problems of labor markets (such as unemployment and discrimination). History of the evolution of labor markets in the United States and the role of government in affecting outcomes. Current issues, including increasing international competition in product and labor markets, the impact of technological change in altering workforce skill and educational requirements, and structural change in compensation and occupational distribution. Offered occasionally.

### ECO 301 ECONOMICS OF LABOR RELATIONS

3, 3/0

Present-day techniques in labor-management negotiations, the collective bargaining agreement, the development and structure of organized labor, labor law, and labor economics. Offered occasionally.

### ECO 302 WOMEN IN THE ECONOMY

3, 3/0; DI14

Recommended Prerequisites: ECO 201 or ECO 202. Analysis of the economic status of women in the United States and other selected nations as compared to men's status and differentiated by age, race, ethnicity, and marital status. Offered occasionally.

### ECO 304 MONEY AND BANKING

3, 3/0

Prerequisite: ECO 201. The nature and function of money. The American monetary system and the role of the banking system. The structure and functions of the Federal Reserve System. Fundamental monetary theory and its relation to monetary policy. Current problems relating to the impact of monetary policy on prices and employment. Offered every semester.

### ECO 305 STATISTICS FOR ECONOMICS

3, 3/0; MQ14

Introduction to elementary statistical principles, descriptive statistics, and statistical inference. Applications in economics, business, and criminal justice. Required for majors. Offered every semester.

### ECO 307 INTERMEDIATE MICROECONOMICS

3, 3/0; WIIF

Prerequisites: ECO 202 and MAT 114 or equivalent. Advanced study of individual units in the economy and how their decisions influence market prices and industry output. Includes the theory of consumer demand, the theory of the firm, resource allocation, income distribution, and welfare economics. Required for majors. Offered every semester.

### ECO 308 INTERMEDIATE MACROECONOMICS

3, 3/0; WIIF

Prerequisites: ECO 202 and MAT 114 or equivalent. Advanced study of aggregate economic activity and its influence on national income. Includes Classical and Keynesian theory, monetary and fiscal policies, business cycles, forecasting, and economic growth. Required for majors. Offered every semester.

### ECO 312 URBAN ECONOMICS

3, 3/0

Prerequisite: ECO 202 or permission of instructor. Application of economic analysis to urban growth, land use, poverty, housing, segregation, pollution, congestion, and urban public finance. Offered alternate years.

Equivalent Course: ECO 312

### ECO 320 MANAGERIAL ECONOMICS

3, 3/0

Prerequisites: ECO 202, ECO 305, and MAT 114 or equivalent. Using economic analysis to formulate and provide guides to the solution of management decision and control problems, and the development of appropriate business policies. Offered alternate years.

### ECO 325 INDUSTRIAL ORGANIZATION

3, 3/0

Prerequisite: ECO 202 or permission of instructor. The links between economic theory and structure, conduct, and performance of national and international industry over time. Designed for economics and business majors. Emphasis on price theory, inter- and intra-firm relationships, and industrial policy. Offered alternate years.

### ECO 340 FEDERAL INCOME TAXATION

3, 0/0

Course is designed to provide a short intensive training in the application of the tax principles and business decisions so as to obtain practical and professional values. Course is an extension of Economics 305: Public Finance to provide comprehensive study of Federal income taxation as a new elective for economics majors. Emphasis is on the "why" and "so what" of the Federal income tax. Estate and gift tax consequences are considered where they are appropriate. Offered occasionally.

### ECO 350 PUBLIC FINANCE

3, 3/0

Prerequisites: ECO 202. The nature and growth of public expenditures; principles of taxation; federal, state, and local revenue; introduction to fiscal policy and theory; significance of public debt; selected problems in intergovernmental fiscal relations. Offered alternate years.

### ECO 355 THE ECONOMICS OF ENERGY AND THE ENVIRONMENT

3, 3/0

Prerequisite: ECO 202 or permission of instructor. Micro- and macroeconomic activity imposed by the availability of energy resources and by environmental considerations. Alternative policy strategies relating to energy and the environment are evaluated in terms of their economic impact. Offered alternate years.

### ECO 360 INTRODUCTION TO THE ECONOMIC ANALYSIS OF LAW

3, 3/0

Prerequisite: ECO 307 or permission of instructor. Introduction to the study of law from an economic perspective. No prior knowledge of law is required, and all economic concepts needed are presented. Uses economic concepts and reasoning to explain and predict consequences of legal rules. Includes important issues found in court cases involving contracts, property law, liability, and environmental law. Offered alternate years.

### ECO 389 TOPICS COURSE

1-3, 1/0

Current advanced topics in Economics. Offered occasionally.

### ECO 401 INTERNATIONAL ECONOMICS

3, 3/0

Prerequisites: ECO 201 and ECO 202; ECO 307 recommended. Basic theories of international trade. The international monetary mechanism and the institutions that facilitate its operation. Foreign economic policy and contemporary problems relating to tariffs, payments, balances, devaluation, and gold as a means of setting international payments in balances. Offered fall only.

### ECO 403 COMPARATIVE ECONOMIC SYSTEMS

3, 3/0

Prerequisites: ECO 201 and ECO 202 or permission of instructor. Essential characteristics of different market economies as they have evolved to the present, their strengths and weaknesses, increasing social control, trading and monetary unions, contrast with socialist systems. Offered occasionally.

### ECO 404 ECONOMIC DEVELOPMENT

3, 3/0

Prerequisite: Minimum of two economics courses. The difficulties of economic development, industrialization, and worldwide poverty. Competing theories of economic growth and structural change. Problems of population, natural resources, and environment. The growing interdependency of the U.S. and lesser-developed countries' (LDCs) economies. The crucial role of women in development, as well as ethnic and other social and cultural relationships. LDCs debt crisis and international finance. Macro- and microeconomic planning models. The policy-making process, development strategies, and specific case studies of LDCs in Africa, Asia, and Latin America. Offered occasionally.

### ECO 405 HISTORY OF ECONOMIC THOUGHT

3, 3/0

Prerequisites: ECO 201 and ECO 202 or permission of instructor. The attempts of key economic thinkers from Aristotle to the present to analyze economic phenomena and provide guidance for economic policy. Offered fall only.

### ECO 407 POLITICAL ECONOMY CLASSICS

3, 3/0

Prerequisite: ECO 201 or ECO 202. In-depth study of classic political economic thought, including Adam Smith's *Wealth of Nations*; David Ricardo's *Principles of Political Economy and Taxation*; Karl Marx's *Das Kapital*, Volume I; and John Maynard Keynes's *General Theory*. Relationships between these classics and modern economic thought and socioeconomic phenomena. Offered occasionally.

### ECO 411 REGIONAL ECONOMIC ANALYSIS

3, 3/0

Prerequisites: ECO 201 and ECO 202 or permission of instructor; college-level algebra recommended. Analysis of location on economic activity, urbanization patterns, and regional growth and development. Techniques in measuring the level of economic activity of a region, using Western New York as a model. The impact of the Buffalo urban area on the development of the surrounding region. Offered occasionally.

### ECO 412 URBAN ECONOMICS

3, 3/0

Prerequisite: ECO 201 or ECO 202 or permission of instructor. Application of economic analysis to urban growth, land use, poverty, housing, segregation, pollution, congestion, and urban public finance. Offered occasionally.

### ECO 424 ECONOMETRICS

3, 3/0; IM14

Prerequisites: MAT 126, ECO 201 or ECO 202, and ECO 305 or equivalent statistics course. Introduction to applied statistical analysis, with primary emphasis on business and economic applications. Provides quantitative background for graduate study in economics, business, public administration, and related social science, as well as for many types of employment. Offered every semester.

### ECO 425 BASIC RESEARCH METHODS IN ECONOMICS

3, 3/0

Prerequisites: ECO 305 or instructor permission. An elective course for economics and related majors designed to introduce students to the basic methods and problems in applied economic research. Emphasis is placed on organizing research projects, finding sources of data, using the computer to solve specific research problems, and writing research reports. Offered occasionally.

### ECO 488 INTERNSHIP

3-12, 0/0

Prerequisites: ECO 201, ECO 202, and one relevant elective; minimum cumulative GPA of 2.75; upper-division status. Application and integration of economic concepts and methodologies in an off-campus field setting, under the direction of a faculty sponsor, with the cooperation of a designated field supervisor. A maximum of 3 credit hours of ECO 488, ECO 495, or ECO 499 may be applied toward the major. Offered every semester.

### ECO 490 SENIOR SEMINAR

3, 3/0; CT14, WIIF

Prerequisites: ECO 305, ECO 307, ECO 308, and senior standing. ECO 424 recommended. Capstone course required of all senior economics and finance majors. Investigation and oral presentation of findings of selected advanced topics in economics and finance. Senior thesis on a topic in economics or finance required. Offered every semester.

### ECO 493 APPLIED ACTUARIAL THEORY

3, 3/0

Prerequisites: MAT 381 and ECO 424. Advanced consideration of actuarial studies and models with an emphasis on applied modeling of actuarial activity and current actuarial processes. Major areas and theories in actuarial sciences as used by companies, government and not-for-profits. Mathematical, statistical, economic and finance models used by actuaries in the field. Analysis of different types of data to understand the financial risks facing different groups. The capstone course for majors in actuarial sciences. Offered occasionally.

### ECO 495 SPECIAL PROJECT

1-3, 0/0

Prerequisites: ECO 307 and ECO 308 and permission of instructor. A maximum of 3 credit hours of ECO 488, ECO 495, or ECO 499 may be applied toward the major. Offered every semester.

### ECO 498 HONORS RESEARCH

3, 0/0

Prerequisite: Admission to honors program in economics. A review of the literature and development of the theoretical issues relevant to the research topic. Offered occasionally.

### ECO 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisites: Permission of instructor. A maximum of 3 credit hours of ECO 488, ECO 495, or ECO 499 may be applied toward the major. Offered every semester.

## Education Workshops (EWS)

### EWS 094 HARASSMENT, BULLYING, AND DISCRIMINATION PREVENTION AND INTERVENTION (DASA)

0, 3/0

This workshop is designed to fulfill the harassment, bullying, and discrimination prevention and intervention training required under the Dignity for All Students Act (DASA). The workshop objective is to address the social patterns of harassment, bullying, and discrimination. It will also cover the identification and mitigation of harassment, bullying, and discrimination; and strategies for effectively addressing problems of exclusion, bias, and aggression in educational settings. Successful completion of this workshop will meet the certificate requirements in §14(5) of Chapter 102 of the Laws of 2012. Offered every semester.

### EWS 095 SCHOOL ANTI-VIOLENCE EDUCATION (SAVE)

0, 3/0

School Anti-Violence Education (SAVE) Workshop: All Education students are required to take a SAVE Workshop. The objective of this training initiative will explain the SAVE legislation and its impact on New York State School. Offered every semester.

### EWS 096 HIV AND THE CLASSROOM

0, 3/0

AIDS/HIV Exposure Workshop: This workshop is required for Childhood, Early Childhood, and Exceptional Education students. The objective of this training initiative is to provide an overview of HIV and AIDS, transmission and Prevention, statistics, classroom issues and preventing infection in the classroom. Offered every semester.

### EWS 097 FIRE AND ARSON SAFETY

0, 3/0

Fire and Arson Safety Workshop: Required for all students who graduate/complete programs AFTER December 2003. The objective of this training initiative is to provide general knowledge on fire safety, arson, juvenile fire setters and prevention. Offered every semester.

### EWS 098 CHILD ABUSE IDENTIFICATION

0, 3/0

Child Abuse Identification Workshop: All Education Students are required to take a Child Abuse Identification Workshop. The objective of this training initiative is to provide every New York State mandated reporter with the knowledge and skills to be able to: Effectively report child abuse or maltreatment/neglect to the NYS Child Abuse and Maltreatment Register. Evaluate situations to determine whether there is reasonable cause to suspect child abuse or maltreatment. Identify the physical and behavioral indicators commonly associated with child abuse. Offered every semester.

### EWS 099 ALCOHOL AND OTHER DRUGS

0, 3/0

Alcohol and Other Drugs Workshop: Required for all students who graduate/complete programs AFTER December 2003. The objective of this training initiative is to provide general knowledge about alcohol and other drugs and their effects, addiction, dependency, recovery, statistics, and a framework in prevention. Offered every semester.

## Elementary Education (EDU)

### EDU 121 TUTORING STUDENTS WITH A DIVERSE LANGUAGE BACKGROUND

3, 3/0

Prerequisite: Completion of all general education/IF cognates in math and English with a minimum grade of C. Develops socio-cultural awareness and trains tutors for community-based experiences. Prepares students for experiences and unique interactions between culture and education while providing strategies to help second-language learners access the core curriculum. Offered occasionally.

### EDU 189 TOPIC COURSE

1, 0/0

EDU 189

### EDU 201 INTRODUCTION TO EDUCATION

3, 3/0

Prerequisite: Major Status (CED, ECE, ECC, or CEDW). Introduces students interested in the education profession to school teaching. Application of major theories, consideration of developmentally appropriate practices relative to learning standards, an introduction to classroom organization, classroom management and discipline, and participation in the reflective writing process are emphasized. A field experience is required. Offered every semester.

### EDU 211 INTRODUCTION TO LITERACY

3, 3/0; IM14

This course is designed to teach students current literacy theories and practices supportive of diverse populations and congruent with federal and state learning standards. Offered every semester.

**EDU 220 PROGRAMS FOR INFANTS AND TODDLERS**  
3, 3/0

Prerequisites: Majors; EDU201, SPF202, EDU211.  
Introduction to the field of early childhood education. Familiarity with the developmental needs and program requirements for infants and toddlers. Students plan developmentally appropriate activities to use with these age groups and implement them in a field placement. Special attention is given to the assessment of young children in the fifty hour field placement. Offered every semester.

**EDU 304 WOMEN AND MATHEMATICS**  
3, 3/0; DI14

Prerequisite: CWP 102. The study of women and mathematics as it relates to career development, bias, stereotypes, anxiety and attitude. An examination of successful women mathematicians, past and present. Insights into the challenges faced by women when studying mathematics and in careers involving mathematics. Offered every spring.

**EDU 306 TEACHING MATHEMATICAL CONCEPTS  
BIRTH - GRADE 2**  
3, 3/0

Prerequisites: EDU 211, MAT 121 or equivalent. Focuses on methods, principles and strategies for teaching math in early childhood settings. Examines mathematical concepts infused in young children's experiences, the use of mathematical tools in young children's learning, methods for adapting math curriculum for learners with diverse abilities, and the relationship of mathematical learning to all areas of the curriculum. Analyzes assessments that encompass both understanding and procedural skills. Offered every semester.

**EDU 310 TEACHING SOCIAL STUDIES IN THE  
ELEMENTARY SCHOOL**  
3, 3/0; CT14, DI14, WIIF

Prerequisite: EDU 211. Provides an opportunity for teacher candidates to critically examine current trends, issues, and practices relating to the professional standards for integrating social studies content into the elementary school curriculum. Teacher candidates will learn concepts, facts, and tools to implement culturally relevant pedagogy in inclusive and equitable classrooms of diverse learners. Offered every semester.

**EDU 311 THE TEACHING OF READING AND THE  
OTHER LANGUAGE ARTS IN THE ELEMENTARY  
SCHOOL**  
6, 6/0; WIIF

Prerequisite: Majors; Overall cumulative GPA of 2.5 in these courses: EDF/SPF 202, EDF/SPF 203, EDF/SPF 302; EDU 201, EDU 211 (exceptional education students will substitute EXE 360 for EDU 201). EDU 211 must have a C or higher. Builds methodological practice from the theoretical scaffold of literacy knowledge and teaching established in EDU 211 and the survey course EDU 201. Participation in classroom practice while exploring in-depth curricular, theoretical, and practical educational frameworks. Junior participants apply skills and processes they have learned in previous courses to teach language arts across the curriculum. Students plan, implement and evaluate lessons incorporating the NYS and Common Core Standards for English Language Arts; practice and evaluate assessment tools and processes; become reflective practitioners; demonstrate effective techniques for instructional organization in a Professional Development School. Orientation required. Offered every semester.

**EDU 312 THE TEACHING OF SCIENCE AND  
MATHEMATICS**

6, 6/0; CT14

Prerequisites: Majors; overall cumulative GPA 2.5 or higher; cumulative GPA of 2.5 in the professional sequence, and a C or higher in EDU 311W. Basic curriculum course for elementary teachers. Students participate in classroom practice while exploring in-depth curricular, theoretical, and practical educational frameworks. Students plan, implement, and evaluate lessons incorporating the NYS and professional organization standards for mathematics, science and technology; practice and evaluate assessment tools and processes; become reflective practitioners; demonstrate effective techniques for instructional organization in a Professional Development School. Offered every semester.

**EDU 313 TEACHING SCIENCE IN EARLY CHILDHOOD  
AND CHILDHOOD SETTINGS**

3, 3/0

Prerequisites Grade of C or better in EDU 211. Explore the teaching of science to elementary students guided by learning theory and current practices. Effective science instruction strategies guided by current standards, will be developed and practiced. Offered every semester.

**EDU 314 TEACHING READING AND THE OTHER  
LANGUAGE ARTS IN THE ELEMENTARY SCHOOL**  
6, 8/0

EDU 314

**EDU 315 THE TEACHING OF SOCIAL STUDIES,  
SCIENCE, AND MATHEMATICS**

6, 3/0

EDU 315

**EDU 316 TEACHING ELEMENTARY SCHOOL  
MATHEMATICS**

6, 3/0

Pre-requisites: Full majors only; overall minimum GPA of 2.5; professional sequence minimum GPA of 2.5; EDU 311 with a grade of C or better; Math 122 or higher. Basic curriculum course for elementary teachers. Students participate in classroom practice while exploring in-depth curricular, theoretical, and practical educational frameworks. Students plan, implement, and evaluate lessons incorporating the NYS standards for mathematics, science and technology; practice and evaluate assessment tools and processes; become reflective practitioners; demonstrate effective techniques for instructional organization in a professional development school. Offered every semester.

**EDU 322 LITERACY INSTRUCTION IN THE  
ELEMENTARY SCHOOL**

3, 3/0

Prerequisites: EDU 211. Corequisites: EXE 321. Develops knowledge, skills and dispositions to extend the reading and other communication abilities of diverse populations congruent with federal learning standards. Builds upon current theories and practices of literacy instruction introduced in EDU 211 to prepare teacher candidates to implement appropriate literacy methods and instructional strategies in a field setting. Includes development of curricula for children within a balanced literacy philosophy and approach to teaching. Designed to develop observant and reflective practitioners.

**EDU 323 FIELD PLACEMENT IN LITERACY METHODS FOR CHILDREN WITH AND WITHOUT DISABILITIES**

3, 0/0

Corequisites: EXE 321 and EDU 322. Prerequisites: EXE 100 (minimum grade of C or higher); EXE 221 (minimum grade of C or higher); EDU 211 (minimum grade of C or higher); Exceptional Education Major Status; 2.6 overall GPA; CWP 102; 1 from: ECO 305, MAT 103, MAT 114, MAT 122, MAT 124, MAT 126, MAT 161, MAT 311, PHI 107. Field experience course in literacy methods emphasizing assessment and instructional design and delivery. Includes effective practices for students with typical development, at-risk and with disabilities. Offered every semester.

Equivalent Course: EXE 323

**EDU 326 EARLY LITERACY AND LANGUAGE DEVELOPMENT**

3, 3/0

Prerequisites: ECE or ECC Majors; Overall and Professional Sequence GPAs of 2.5 or higher, EDU 220, C or higher in EDU 311W. May be taken concurrently with EDU 329. Exploration of principles, practices and materials for providing children, Birth-Preschool, with strong foundation to support early literacy skills and language development. Examines theoretical influences on language development, relationship between oral language and early literacy, children's literature, curriculum and assessment. Consideration of implications for enhanced literacy and language outcomes for all children. Offered every semester.

**EDU 327 FUNDAMENTALS OF PLAY**

3, 3/0

Prerequisites: EDU 211 and EDU 220. Understanding the essence of play from a socio-cultural perspective. Play's definition and its tenets as they parallel the New York State Common Core Standards for Early Childhood. Play's categories, social stages, and types of development.

**EDU 329 INTEGRATED THEMATIC INSTRUCTION FOR YOUNG CHILDREN**

6, 6/0

Prerequisites: ECE or ECC Majors; Overall and Professional Sequence GPAs of 2.5 or higher, EDU 211, EDU 220, EDU 311W with a grade of C or higher. Use of knowledge of child development and learning to provide opportunities that support the physical, social, emotional, cognitive, and aesthetic development of preschool, kindergarten, and primary-grade children. Lessons are taught in a Professional Development School. Offered every semester.

**EDU 342 TEACHING ELEMENTARY SCHOOL MATHEMATICS**

3, 3/0

Pre-requisites: Math 122 or higher; EDU 322 with a grade of C or better; EXE majors only; overall minimum GPA of 2.6; Concurrent enrollment in EXE 344. Mathematics curriculum course for elementary teachers. Students explore in-depth curricular, theoretical, and practical educational frameworks for teaching mathematics. Students plan and evaluate mathematics lessons incorporating the state and national standards for mathematics; explore links among mathematics, science and technology; evaluate mathematics assessment tools and processes; become reflective mathematics teaching practitioners; demonstrate effective techniques for instructional organization in an elementary school. Students read and explain current research in mathematics education at the elementary level. Offered every semester.

**EDU 343 FIELD PLACEMENT FOR TEACHING ELEMENTARY SCHOOL MATHEMATICS**

3, 3/0

Prerequisite: EXE 321 (minimum grade of C or higher); EDU 322 (minimum grade of C or higher; EXE/EDU 323 (minimum grade of C or higher); Exceptional Education Major Status; 2.6 overall GPA. Corequisites: EDU 342; EXE 344. Field experience course in elementary school mathematics. Students plan, implement, differentiate, and evaluate mathematics lessons; administer and evaluate assessment tools and processes; become reflective practitioners; and demonstrate effective techniques for instructional organization in an elementary school. Students design and implement plans that address elementary student deficits in mathematics.

Equivalent Course: EXE 343

**EDU 349 MIDDLE CHILDHOOD DEVELOPMENT, CURRICULUM AND LEARNING**

3, 3/0

Prerequisites: SPF 202 or SPF 303. Explores early adolescence as a unique transition period. Examines middle level student characteristics and critical transformations that take place during these years. Details research-based curriculum for diverse students in Grades 5-9 to promote cognitive, social, emotional and physical development. Analyzes interdisciplinary models and methods for middle-level teaching in content areas. Offered fall and spring.

**EDU 375 INTEGRATION OF TECHNOLOGY IN EDUCATION**

3, 3/0

Prerequisites: Majors; EDU 211. Provides the pre-service teacher with an awareness of the current range of instructional and adaptive technologies. Emphasis on curricular integration of technology within the general and special education classroom, and connections between instructional technology and the broader role of technology in society. Offered every semester.

Equivalent Course: EXE 375

**EDU 380 INTERNATIONAL PROFESSIONAL DEVELOPMENT SCHOOLS STUDY ABROAD AND SERVICE LEARNING**

3, 3/0

Prerequisites: GPA 2.5 or better. This course provides opportunities to globalize understanding and experience of education including education of language learners through study about and travel to an international destination. Topics include history, geography, language, and culture of the target country; pedagogical tools for working with language learners; intercultural competency; political and global interactions; comparative education study; keys to reflective practice. Offered each semester in conjunction with extended-semester study away initiative.

**EDU 389 TOPICS IN CHILD ABUSE: THE ROLE OF THE CLASSROOM TEACHER**

1-3, 0/0

EDU 389

**EDU 400 PRACTICUM IN ELEMENTARY TEACHING I**  
6, 0/6; CT14, IM14, WIIF

Prerequisites: Majors; Minimum overall cumulative GPA of 2.5; minimum grade of C in teaching methods courses related to specific major (EDU 311 or EDU 311W, and EDU 316 or EDU 329). Minimum GPA of 2.5 in major courses, successful completion of English composition/basic communication and mathematics competency requirements. Intended as the teacher candidate's culminating experience. This is the first supervised teaching experience of two school settings at two developmental levels five full days a week for approximately seven to eight consecutive weeks. Teacher candidates are required to effectively demonstrate content knowledge, pedagogical preparation, instructional delivery, classroom management, knowledge of student development, collaboration with school professionals, and reflective practice. Extension teacher candidates will take EDU 404 and their extension student teaching course. Exceptional Education majors will take EDU 404 and their EXE student teaching course. Early Childhood and Combined Early Childhood/ Childhood majors will take EDU 400 and EDU 410. Offered every semester.

**EDU 401 PRACTICUM IN TEACHING: INTERMEDIATE**  
6, 0/6; CT14, IM14, WIIF

Prerequisites: Majors . Minimum cumulative GPA of 2.5; minimum grade of C in methods courses related to respective major (EDU 310, EDU 311, EDU 312 or EDU 316); minimum cumulative 2.5 GPA in major courses; successful completion of English composition/basic communication and mathematics competency requirements. Intended as the teacher candidate's culminating experience. Supervised teaching in elementary grades five full days a week for approximately seven to eight consecutive weeks. Individual conferences and seminars with college supervisor. Tutorial and group instruction. Daily and long-range planning, teacher-pupil planning, unit teaching, audiovisual aids, classroom management, record keeping, evaluation techniques. Offered every semester.

**EDU 402 SEMINAR IN EDUCATION**  
1-3, 1/0

Nature and function of a philosophy of education. Teaching research methods and techniques, crucial issues in education, problems of beginning teachers. To be taken concurrently with EDU 400, EDU 401, EDU 404 and/or EDU 410. Required for all childhood, early childhood, and combined education majors. Offered every semester.

**EDU 404 PRACTICUM IN ELEMENTARY TEACHING FOR EX ED & MIDDLE SCHOOL EX STUDENTS**  
6, 0/0

Prerequisites: Extension and Exceptional Education majors only. Minimum cumulative GPA of 2.5; minimum grade of C in teaching methods courses (EDU 310, EDU 311, and EDU 312 or EDU 316). Minimum GPA of 2.5 in professional sequence/major courses. For elementary education teacher candidates seeking certification in childhood/exceptional education, or childhood with a middle school extension. Intended as the teacher candidate's culminating experience. Supervised teaching experience in an elementary grade setting five full days a week for approximately seven to eight consecutive weeks. Teacher candidates are required to effectively demonstrate content knowledge, pedagogical preparation, instructional delivery, classroom management, knowledge of student development, collaboration with school professionals, and reflective practice. Offered every semester.

**EDU 405 PARENT-INFANT EXPERIENCE**  
3, 3/0

**EDU 405**

**EDU 410 PRACTICUM IN EARLY CHILDHOOD TEACHING**  
6, 0/6

Prerequisites: Early Childhood and Combined Education Majors only. Minimum cumulative GPA of 2.5; minimum grade of C in methods courses related to respective major (EDU 220, EDU 311, EDU 329); minimum cumulative 2.5 GPA in major courses; successful completion of English composition/basic communication and mathematics competency requirements. Intended as the teacher candidate's culminating experience. Provides supervised teaching experience in an early childhood classroom five full days per week for approximately seven to eight consecutive weeks. Effective demonstration of content knowledge, pedagogical preparation, instructional delivery, classroom management, knowledge of student development, collaboration with school professionals, and reflectivity of practice. Offered every semester.

**EDU 411 PARENTS, SCHOOLS, AND COMMUNITY**  
3, 3/0

Prerequisite: EDU 311 or EDU 311W with a minimum grade of C. Early childhood and combined childhood/early childhood majors only; this course may be taken concurrently with student teaching or in a previous semester. Designed to assist students in building partnerships among parents, schools, and diverse communities. Students will learn how to collaborate with families and implement family involvement strategies during student teaching. Special attention will be given to linking families with services offered in the school and community. Offered every semester.  
Equivalent Courses: EDU 420, EXE 411

**EDU 416 TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS**  
3, 3/0

Prerequisites: Majors, upper division status. Special problems in reading encountered in middle and secondary schools. Includes the reading process, reading skills, and techniques for assessing developing reading skills. Special emphasis on critical reading in content areas. Offered every semester.

**EDU 417 ADOLESCENT LITERACY**  
3, 3/0

Prerequisites: EDU 416 or equivalent; upper division status. Literacy development of adolescents in multiple contexts. Topics will include adolescents' multiple literacies, assessing literacy abilities, use of technology and materials other than textbooks, integration of literacy across disciplines, and strategies for working with struggling students, English learners, students with disabilities, and advanced students. Offered every semester.

**EDU 420 ISSUES IN EARLY CHILDHOOD**  
3, 3/0

Prerequisites: Junior/Senior Status, EDU 220. Explores current issues and trends in early childhood education, their sources and impact on best practices in the early childhood classroom related to expectations, curricula, assessment, and other initiatives. Evaluates implications for early childhood programs/settings, diverse families and communities. Emphasizes the historical and political context for change and advocacy for sound educational practices and policies for the future.



EDU 488 INTERNSHIP IN NON-SCHOOL SETTINGS

0, 0/0

EDU 488

EDU 495 SPECIAL PROJECT

1-6, 0/0

EDU 495

EDU 497 SPECIAL COURSE

1-3, 1/0

EDU 497

EDU 499 INDEPENDENT STUDY

3-12, 0/0

Offered occasionally.

## Engineering Technology (ENT)

ENT 100 THE AGE OF ENERGY

3, 3/0

Energy needs of society and the drive to use renewable energy sources and more efficient forms of transportation; technological, societal, ethical, and economic impact of societies' energy needs; impact on quality of life issues; hands-on student team projects focusing on solar, wind, hydro; increased efficiency topics such as hybrid/electrical vehicles and house lighting. Offered occasionally.

ENT 101 TECHNICAL DRAWING

3, 0/0

Survey of projection theory, multi-view projection, spatial relationships, and visualization of point, lines, planes and solids; size and shape description through sketching, and computer-aided drawing; standards and conventions, auxiliary views, revolutions, tolerance, dimensions, geometric tolerances, and pictorials. Offered occasionally.

ENT 102 INTRODUCTION TO EQUATION-SOLVING SOFTWARE

1, 1/0

Use of current industry-standard computer software programs that allow users to enter and manipulate mathematical equations; perform calculations; and analyze, plot, and document data. These engineering software programs are invaluable tools to technology majors, who combine engineering principles with mathematics to describe physical phenomena. Offered fall only.

ENT 104 ESSENTIALS OF ELECTRICAL ENGINEERING TECHNOLOGY

3, 2/3

Introduction to the field of Electrical Engineering Technology for majors and non-majors; Introduction to basic electricity, mathematical modeling of circuits, circuit breadboards, electrical instrumentation, computer analysis/circuit simulation and technical reporting. Emphasizes projects, project management and the need for teamwork by conducting projects in the areas of design, simulation and test. Required of all freshmen electrical engineering technology majors. Junior-transfer students will substitute a technical-elective course for ENT104. Offered fall only.

ENT 202 INTRODUCTION TO ENGINEERING ECONOMICS AND PROJECT MANAGEMENT

1, 1/0

Prepares students to estimate, plan, and manage projects. Provides exposure to techniques to better prepare students for problems seen in industry. Offered fall only.

ENT 213 COMPUTER METHODS FOR TECHNOLOGISTS

3, 3/0

Co-requisite: MAT 162 or MAT 127. The applications of commercial software for solving technical problems and performing office functions, including entering and manipulating mathematical functions and equations, analyzing and graphing data, performing symbolic and numerical calculations, and scheduling and managing project. Focuses on the analysis and solution of problems in engineering and technology. Offered every semester.

ENT 221 NANOSCALE SCIENCE, ENGINEERING, AND IMPLICATIONS

3, 3/0

Prerequisites: MAT 162 or MAT 127, PHY 107 or PHY 111, CHE 101 or CHE 111. Overview of the nanoscale world that pervades our lives; fundamental concepts in materials properties and structure; dynamics in the nanoscale that include atomic interactions and energy kinetics; nanoengineering utilized in fabrication and characterization technologies; social implications of nanoscale materials and technology, including ethical, legal, and environmental impacts. Offered occasionally.

ENT 295 INDEPENDENT PROJECT

1-3, .25/.75

Prerequisite: Instructor permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered Occasionally.

ENT 300 MATHEMATICS APPLICATIONS IN ENGINEERING TECHNOLOGY

3, 3/0

Prerequisite: MAT 127 or MAT 162. Application of algebra, analytic geometry, calculus and ordinary differential equations to problem solving in engineering technology. Introduction to first and second-order differential equations including methods of Laplace transforms, numerical solutions of ordinary differential equations, eigenvalues, eigenvectors, probability, and partial derivatives. Offered every semester.

ENT 301 MECHANICS I

3, 2/3

Prerequisites: MAT 126 or MAT 161 and PHY 107 or PHY 111 or equivalent. Basic principles and applications of statics; equilibrium of rigid bodies, freebody diagrams, friction, centroids, moments of inertia, trusses, frames and machines, and equilibrium of particles. Offered every semester.

ENT 302 MECHANICS II

3, 2/3

Prerequisites: ENT 300 or MAT 315. Principles of dynamics applied to the forces on and motion of rigid bodies and particles; kinematics, kinetics, and energy and momentum methods for both particles and rigid bodies; introduction to mechanical vibration included. Offered every semester.

### ENT 303 KINEMATICS

3, 2/3

Prerequisite: ENT 302. Relative motion of machine parts; graphical and analytical techniques presented for position, velocity and acceleration analysis of linkages, chains, rolling bodies, gears and miscellaneous. Offered spring only.

### ENT 311 THERMODYNAMICS

3, 2/3

Prerequisite: ENT 301. Basic principles of classical thermodynamics and their applications to various engineering technology areas; technical applications of heat-power systems, refrigeration systems, combustion and psychometrics, and HVAC systems. Offered fall only.

### ENT 312 FLUID MECHANICS

3, 2/3

Prerequisite: ENT 311. Introduction to the basic phenomena and principles of fluid flow; fluid properties, fluid statics, conservation of mass, and energy; study of the basic fluid mechanics concepts to the analysis of pipe and duct flow; measurement of fluid properties, pressures, velocities, and forces. Offered spring only.

### ENT 314 SOLID MODELING

3, 2/3

Prerequisites: TEC 101, ENT 301. Three-Dimensional (3D) parts and assembly creation; defining high-level features like cuts and holes in addition to low-level geometry; using parametric modeling; 3D solid modeling; analyzing solid models with finite element technique for stress and heat testing; applying solid models on rapid prototyping machines. Offered every semester.

### ENT 321 ANALYSIS OF MANUFACTURING PROCESSES

3, 2/3

Prerequisites: TEC 201 or ENT 201 and MAT 126 or MAT 161 (or equivalent). Quantitative analysis of materials processing and manufacturing; casting processes; stress-strain relationships; bulk deformation; sheet metal forming; powder metallurgy; machining and joining processes; surface modifications and nontraditional manufacturing processes. Offered occasionally.

### ENT 330 ELECTRICAL CIRCUITS ANALYSIS I

3, 2/3

Prerequisites: PHY 108 or PHY 112. Direct Current (DC) electric circuit concepts; basic circuits elements and their characteristics; analysis of series and parallel circuits; modeling and analysis of DC circuits with multiple sources; electrical instrumentation and computer analysis tools used in performing laboratory experiments. Required for electrical engineering technology majors.

### ENT 331 ELECTRICAL CIRCUITS AND DEVICES

3, 3/2

Prerequisites: PHY 107 or PHY 111 or equivalent. Introduction to electrical circuit concepts, both DC and AC; analysis of series and parallel circuits; use of superposition theorem to analyze electric circuits with multiple sources; electrical instrumentation and computer analysis tools used in performing laboratory experiments. Required for non-electrical engineering technology majors. Credit is issued for either ENT 331 or ENT 330, but not for both. Offered every semester.

### ENT 332 ELECTRICAL CIRCUITS ANALYSIS II

3, 3/2

Prerequisites: ENT 330 or equivalent. Alternating Current (AC) electric circuit concepts; waveform analysis; analysis of series and parallel AC circuits; electrical instrumentation and computer analysis tools used in performing laboratory experiments. Required for electrical engineering technology majors. Offered every fall semester.

### ENT 335 INDUSTRIAL ELECTRONICS

3, 2/3

Prerequisite: ENT 331. Essential industrial machines and automation topics, such as discrete and analog process control, switches and sensors, control systems, industrial controls, LabView, programmable logic controllers, and data acquisition. Laboratory exercises provide practical applications of the industrial electronics that engineering technology graduates are likely to encounter. Offered fall only.

### ENT 340 BUILDING INFORMATION MODELING (BIM) USING REVIT MEP

3, 3/2

Prerequisites: ENT332 or ENT331, or instructor permission. Building Information Management software facilitates users to design a building and its elements, such as mechanical, electrical, and plumbing (MEP) systems in 3D and involves drawing techniques for 3D parametric solid modeling of MEP systems of buildings, enabling coordination and change management in design documentation extensively used in industry. Offered every spring semester.

### ENT 341 ELECTRONICS

3, 3/2

Prerequisite: ENT 330. Introductory analysis of electronic circuits, with emphasis on semiconductor devices. Offered fall only.

### ENT 342 ADVANCED CIRCUIT ANALYSIS

3, 3/0

Prerequisites: ENT 300 and ENT 332. Signal analysis, circuit parameter, time domain circuit, steady state and transient solution, Laplace transforms and applications, topics in frequency domain, network functions, theorems, sinusoidal steady state analysis from pole-zero plots. Introduction to network synthesis. Offered spring only.

### ENT 345 DIGITAL SYSTEMS

3, 2/3

Corequisite: ENT 341. Digital logic systems are a major part of modern electrical technology including applications in computers, manufacturing and the communication revolution currently taking place. This is an introductory level course required for all Electrical Engineering Technology majors. Offered fall only.

### ENT 346 MICROCONTROLLERS

3, 2/3

Prerequisite: ENT 345 and CIS 151. This course introduces the theory and application of microprocessors and microcontrollers and develops proficiency in programming Assembly and C languages, interfacing, as well as prototyping and troubleshooting. Offered spring only.

### ENT 350 ELECTRICAL CODES AND STANDARDS

3, 3/0

Prerequisites: ENT 332, or ENT 331 or equivalent. Electrical codes and standards are the strict set of rules and represent the established set of standards and practices that must be followed during design, operation and maintenance of electrical installations, what redundancies need to be in place, and what methods and protocols must be followed. Offered occasionally.

### ENT 351 ANALOG CIRCUITS ANALYSIS

3, 2/3

Prerequisites ENT 341 and ENT 342. Analyze, troubleshoot, and design foundational circuits employing operational amplifiers (op amp) and other electronic devices; establish proficiency with electronic circuit computer analysis tools and electronic instrumentation. Required for electrical engineering technology electronics option majors. Offered every fall semester.

### ENT 352 DIGITAL ELECTRONICS

3, 3/2

Prerequisite: ENT 342 and ENT 351. Analysis and design of electronic circuits, discrete and integrated, with emphasis on pulse and digital applications. Offered spring only.

Equivalent Course: ENT 452

### ENT 360 SMART BUILDINGS AND ENERGY EFFICIENCY

3, 2/3

Prerequisites: ENT 345 or instructor permission. Control techniques of various building systems, including but not limited to heating, ventilation, lighting, elevators, security, and energy management. Energy efficiency along with metering, integration of renewables, distributed generation, computational analytics, and service considerations. Offered occasionally.

### ENT 361 PROGRAMMABLE LOGIC CONTROLLERS (PLCs)

3, 2/3

Prerequisite: ENT 331 or TEC 314 or equivalent. A comprehensive treatment of programmable logic controllers (PLCs). Prior knowledge of PLCs is not required. Familiarity with the DOS or MS Windows operating systems is helpful. The standard PLC programming languages are examined: ladder logic, sequential function charts, function block diagrams, instruction lists, structured text, and high-level languages such as Basic, Pascal and C. Numerous laboratory exercises with four PLC brands give students broad exposure to programming, troubleshooting, networking, and PLC system design and startup. Offered occasionally.

### ENT 365 MANUFACTURING SYSTEMS DESIGN

3, 3/0

Prerequisite: ENT 321. Introduction of product development; production control; requirements and selection of machines/labor; material handling equipment selection; storage and warehousing; computer-aided plant layout; site selection and location; facility location analysis and its impact on manufacturing. Offered occasionally.

### ENT 371 ELECTRIC MACHINES

3, 2/3

Prerequisite: ENT 332. DC and AC machines and transformers are studied as an integral part of electric power systems. Single and three-phase induction and synchronous machines, DC motors and fractional horsepower motors, including stepper motors. Solid-state motor control; computer tools for study of motor performance. Laboratory experiments illustrate motor performance and measurement techniques. Offered every semester.

### ENT 392 MATERIAL SELECTION AND DESIGN FOR MANUFACTURING

3, 2/3

Prerequisites: ENT 301, ENT 321, and TEC 311. Introduction to materials properties for design of structures and components, design/selection/failure of materials, and selection of ferrous/nonferrous/ceramics and polymeric materials. Offered occasionally.

### ENT 401 STRESS ANALYSIS

3, 2/3

Prerequisites: ENT 300 or MAT 315. Techniques used to predict stress and strain caused by loads or other effects in structural members and machine elements; use of analytical, numerical and experimental methods. Offered fall only.

### ENT 402 SHOCK AND VIBRATION ANALYSIS

3, 2/3

Prerequisites: ENG 302, ENT 401 and junior or senior status. Theoretical, analytical, and experimental methods used in the analysis of shock and vibration in machine elements and structures; free and forced vibration of one and multidegree of freedom systems with introduction to lumped parameter systems and continuous systems; familiarity with instrumentation and experimental techniques developed by performing hands-on laboratory experiments. Offered spring only.

### ENT 404 DESIGN OF AUTOMATED MANUFACTURING SYSTEMS

3, 2/3

Prerequisites: ENT 361 and ENT 392. Design for automation; mechanization of parts handling; automated manufacturing and assembly; numerical control and CAD/CAM; industrial robots and implementation, machine vision, microprocessors, principles of lean manufacturing, computer integrated manufacturing, and automated factory. Offered occasionally.

### ENT 411 HEAT TRANSFER

3, 2/3; CT14, WIIF

Prerequisite: ENT 312. Heat transfer and its application to various engineering technology areas; extension of thermodynamics and fluid flow analysis. Topics include conduction, convection, radiation, and current areas. Offered fall only.

### ENT 414 MANUFACTURING ANALYSIS

3, 3/0

Prerequisite: Upper-division status in ENT or TEC. Analysis of product design and development, economic analysis, break-even analysis, life cycle approach, capacity planning, manufacturing operations economy, allocation of resources, human factors, machines and maintenance, quality control and assurance, measurement of productivity and its effects on manufacturing economics. Offered occasionally.

**ENT 420 PROFESSIONAL EXPERIENCE IN MECHANICAL ENGINEERING TECHNOLOGY**

1, 1/0

Corequisites/Prerequisites: ENT 411, ENT 421, ENT 335. Prerequisites: ENT 401, ENT 331, ENT 311, ENT 312, ENT 301, ENT 302, TEC 311 and TEC 201. Exposure to professional engineering design concepts/methodologies; MET portfolio development and evaluation of MET subject matter necessary for the senior design project; senior design project proposal development. Required for mechanical engineering technology program. Offered fall only.

**ENT 421 MACHINE DESIGN I**

3, 2/3

Prerequisites: ENT 303 and ENT 401. Techniques used to design and specify machine elements, i.e., shafts, springs, fasteners, belts, clutches, brakes, chains, bearings, gears, cams, etc. Offered fall only.

**ENT 422 MACHINE DESIGN II**

3, 2/3; CT14, IM14, WIIF

Prerequisite: ENT 420. Advanced topics in machine design. Students design a major project involving preliminary analysis, working drawings, fabrication, and testing of a prototype. Required for mechanical engineering technology majors. Offered spring only.

**ENT 433 MICROPROCESSOR APPLICATIONS AND ROBOTICS**

3, 3/2

Prerequisite: ENT 346. Theoretical and practical background of the technology used in the application of microprocessors. Programming hardware, interfacing, and application of microprocessors. The elements of robotics with emphasis on the construction and programming of robots. Offered occasionally.

**ENT 441 COMMUNICATION TRANSMISSION TECHNOLOGY**

3, 2/3

Prerequisite: ENT 332 and senior status. Introduction to the development and technology of digital, RF, microwave and optical fiber communications including transmission line types and characteristics, components, measurement of reflections, power, impedance, and wavelength. Signal structure and protocols used in data communications; computer analysis and design of digital and carrier communication circuits. Offered fall only.

**ENT 442 RF AND MICROWAVE COMMUNICATIONS**

3, 2/3

Prerequisite: ENT 441. Introduction to wireless communication technology. Free-space and near-earth propagation effects, including RF safety, multipath, and antennas are covered. Receiver and transmitter design, components, and performance. Emphasis on digital representation of signals and transmission of digital data, types of modulation and channel capacity; systems and applications. Offered spring only.

**ENT 445 POWER ELECTRONICS**

3, 3/0

Prerequisites: ENT 332, ENT 341 (could be taken as corequisite). The operation of modern, high-power electronic devices as applied to controls, electric machines, and power systems; power diodes, silicon-controlled rectifiers, thyristors, BJTs, MOSFETs, and IGBTs; applications to rectifiers, inverters, controlled rectifiers, AC voltage control, DC step-up and step-down systems, high-voltage DC (HVDC), and flexible AC transmission systems (FACTS); perform laboratory experiments using electrical instrumentation and computer analysis tools; required for smart grid option of electrical engineering technology majors. Offered fall only.

**ENT 446 DIGITAL SYSTEMS DESIGN AND ANALYSIS**

3, 2/3

Prerequisite: ENT 346. Study of Field Programmable Gate Arrays (FPGAs) and their Hardware Description Languages (HDLs), used in connection with advanced industry technologies. This includes exposure to microcontrollers for smart devices, serial communication, and survey of smart sensors. Required for electrical engineering technology electronics option majors. Offered every spring.

**ENT 452 ANALOG SYSTEMS DESIGN AND ANALYSIS**

3, 2/3

Prerequisites ENT 351. Advanced operational amplifiers (op amp) and linear integrated circuits (IC) applications including analog filters, analog-digital and digital-analog converters, pulse circuits, wave-shaping circuits; analysis of frequency-dependent circuits; sensor interfacing; non-ideal op amp properties; introduction to analog integrated circuit design and printed circuit board (PCB) layout considerations. Required for electrical engineering technology electronics option majors. Offered every spring semester. Equivalent Course: ENT 352

**ENT 461 CONTROL SYSTEMS I**

3, 3/2

Prerequisites: ENT 341, ENT 342, and senior status. Applies frequency domain techniques to open-loop and closed-loop systems with emphasis on stability and performance. Classical methods of control engineering are presented: Laplace transforms and transfer functions, root locus analysis, Routh-Hurwitz stability analysis, steady-state error for standard test signals, and second-order system approximations. MATLAB is introduced and utilized extensively for computer-aided analysis. Laboratory exercises provide practical application of the control-system theory. Offered fall only.

**ENT 462 CONTROL SYSTEMS II**

3, 2/3; WIIF

Prerequisite: ENT 461. Corequisite: ENT 466. Project centered. Students build, tune, simulate, and model a system (such as a magnetic levitation apparatus) for the purpose of demonstrating skills acquired during previous academic work. Project focuses on practical application of the control-system theory developed in Control Systems I. Offered spring only.

**ENT 465 ELECTRICAL DESIGN I**

3, 2/3; CT14, IM14, WIIF

Co-requisite: ENT 461 and Instructor permission. Advanced topics in electrical and system design, the design process, and project management; a major design project sequence that includes preliminary analysis, working drawings and schematics; preliminary design and its presentation. Offered spring only.

### ENT 466 ELECTRICAL DESIGN II

3, 2/3; CT14, IM14, WIIF

Prerequisite ENT465. Corequisite: ENT462. Advanced topics in electrical and system design, the design process, and application of project management; a major design project sequence that culminates with final analysis, working drawings, schematics, and installation or prototype; final design stages of construction, testing and installation of a significant engineering project. Offered every spring semester.

### ENT 471 POWER SYSTEMS I

3, 2/3

Prerequisites: ENT 332 Electric Circuits and senior standing. Basic elements of power systems. Energy sources. Balanced three-phase circuits. Power factor correction. Voltage regulation. Transmission line modeling. Per-unit system. Balanced fault analysis. Load flow analysis using numerical methods. Electric power distribution economics. Offered fall only.

### ENT 472 POWER SYSTEMS II

3, 2/3

Prerequisites: ENT 471 Power Systems I. Calculate electric demand of a power system. Solve line faults using symmetrical components. Use equal area criterion to solve simple stability problems. System protection. Electromechanical and numeric relays and their applications. Voltage quality and reliability. Design of a power distribution system for industrial facility. Offered spring only.

### ENT 473 PLANNING AND OPERATION OF ELECTRIC VEHICLES IN SMART GRID

3, 3/0

Prerequisite: ENT 471 or instructor's permission. This course introduces and explains the latest advancements in the planning and operation of electric vehicles (EV) in smart grid from local electric distribution company's, electric generation company's, and EV aggregator's point of views. The problems such as charging station sizing, charging station placement, and EV's charging management are studied considering the technical specifications of EVs. Offered occasionally.

### ENT 481 RENEWABLE DISTRIBUTED GENERATION AND STORAGE

3, 2/3

Prerequisites: ENT 331 Electric Circuits or equivalent or ENT 332 or instructor's permission. This course introduces renewable and efficient electric power systems. It encourages self-teaching by providing numerous practical examples requiring quantitative analysis. Topics include historical, regulatory, and utility industry perspectives of the electric system as well as most of the electricity, thermodynamics, and engineering economics background needed to understand new power technologies. Offered occasionally.

### ENT 482 SMART GRID FROM SYSTEMS PERSPECTIVE

3, 2/1

Prerequisites: ENT 331 or equivalent, and ENT 471 or instructor's permission. A comprehensive understanding of smart grid is needed for stakeholders to enable them to develop systems prospective of Smart Grid and its technologies, increase modeling of Smart Grid from multiple perspectives, to increase economic understanding and decision making around current and future technologies, to understand the role of policy and politics in the advancement of Smart Grid over time, to understand how to educate others in Smart Grid, and to understand basic subsystems of the Smart Grid. Offered occasionally.

### ENT 491 OPERATIONS AND MANAGEMENT OF MODERN GRID

3, 3/0

Prerequisites: Senior status or instructor's permission. This course introduces and explains operations of electric utilities including generation, transmission, distribution, and consumption of electric power, defines system operations and their drivers; discusses impact of deregulation and impact of smart grid technologies on systems operations; introduces concepts of business of system operations, and discusses various management systems used by modern utilities. Offered occasionally.

### ENT 495 SPECIAL PROJECT

1-3, 0/0

Offered spring only.

### ENT 497 WORKSHOP

1-3, 0/0

Offered occasionally.

### ENT 499 INDEPENDENT STUDY

3-12, 0/0

Offered every semester.

## English (ENG)

### ENG 130 BIBLICAL AND CLASSICAL LITERATURE

3, 3/0; WC14

Works selected from Biblical literature and from Latin and Greek literature before Constantine. Offered every semester.

### ENG 131 MEDIEVAL AND RENAISSANCE LITERATURE

3, 3/0; WC14

An introduction to world literature of the medieval and renaissance periods. Offered annually.

### ENG 147 INTRODUCTION TO DIVERSE LITERATURES

3, 3/0; DI14, HU14

Introductory survey of diverse literatures of the United States with an emphasis on literatures by marginalized communities including ethnic and racial minority writers, LGBTQ+ writers, women writers, and members of under-represented groups. Offered every fall.

### ENG 151 INTRODUCTION TO POETRY

3, 3/0; HU14

Verbal and formal techniques of English and American poetry. Prosody, verse forms, conventions, genres, diction, and imagery. Social and historical contexts. Representative authors and periods. Offered every semester.

### ENG 160 INTRODUCTION TO LITERATURE AND FILM

3, 3/0; HU14

Analysis of film as the creative and critical interpretation of fiction or drama; how such films respond to aesthetic, cultural, technological, political, and ideological influences, both in the source text and in the contemporary moment. Offered every semester.

### ENG 170 INTRODUCTION TO CREATIVE WRITING

3, 3/0; AR14

Prerequisite: CWP 101 or CWP 102. An introduction to the craft of fiction, nonfiction, poetry and other forms of creative writing. Offered every semester.

**ENG 189 TOPIC COURSE**

1-3, 0/0

A project in literary criticism, literary history, film studies, or a related field. Offered occasionally.

**ENG 190 INTRODUCTION TO LITERATURE**

3, 3/0; WIIF

The basic types of responses to literature; the defining characteristics of poetry, fiction, and drama; as well as the skills of close reading of literary texts. Only a grade of C or higher in ENG190 may be applied to the English, English Education and Writing majors. Offered every semester.

**ENG 200 FIELD EXPERIENCE IN SECONDARY ENGLISH EDUCATION**

3, 3/0

Prerequisites: Standing in the English Education Major or Post Baccalaureate Certification Program. Introduction to the secondary school as an institution and to the teaching of English as a profession. Required observations of teaching English and other areas, 7-12. Limited experimentation with teaching secondary English. Offered every semester.

**ENG 201 THE CRAFT OF WRITING**

3, 3/0

Prerequisite: CWP 102. Demystifying the act of writing by studying, discussing, and practicing models of the composing process. Offered every semester.

**ENG 205 HISTORY OF CINEMA I**

3, 3/0; HU14

This course provides the student with an understanding of cinema history from 1890 to 1960. Students will examine trends in cinema's aesthetic forms, technical breakthroughs, innovators, cultural antecedents, and impact. Offered every semester.

**ENG 206 HISTORY OF CINEMA II**

3, 3/1; HU14

This course provides the student with an understanding of cinema history since 1960. Students will examine representative trends in cinema's aesthetic form, technical breakthroughs, key innovators, cultural antecedents and cultural impact. Offered every semester.

**ENG 210 BRITISH LITERATURE TO 1700**

3, 3/0; HU14

A study of selected topics, themes, and authors in British literature before 1700. Offered annually.

**ENG 211 BRITISH LITERATURE 1700-1914**

3, 3/0; HU14

A study of selected topics, themes, and authors in British literature from 1700 to 1900. Offered annually.

**ENG 212 BRITISH LITERATURE SINCE 1914**

3, 3/0; HU14

An overview of important movements in British literature from the late Victorian period through contemporary literature, such as Fabianism, Modernism, Marxism, Aestheticism, The Movement and the Angry Young Men, postmodernism, post-Empire writing, Black British writing, and women's and queer literature. Offered occasionally.

**ENG 220 AMERICAN LITERATURE TO 1865**

3, 3/0; HU14

Survey of the various genres of influential American writing—including biographies, captivity and slave narratives, essays, poems, short stories and criticism, as well as Gothic, epistolary, sentimental, and Romantic novels—produced between the late seventeenth century and the mid-nineteenth century. Offered every semester.

**ENG 221 AMERICAN LITERATURE SINCE 1865**

3, 3/0; HU14

A study of topics, themes, and authors in American literature after the Civil War. Offered every semester.

**ENG 230 COMPARATIVE LITERATURE**

3, 3/0; HU14

Comparative analyses of the ways in which literary periods, genres, movements, and social forms are shaped by the languages and cultural contexts through which they come into being. Course may be repeated once for credit when content varies. Offered every semester.

**ENG 231 WOMEN IN LITERATURE**

3, 3/0; DI14, HU14

The images of women in literature as they reflect attitudes about women and their roles. Emphasis on authors and eras varies with instructors. Offered every semester.

**ENG 240 AFRICAN AMERICAN LITERATURE TO 1940**

3, 3/0; DI14, HU14

African American slave narratives, poetry, fiction, essays, and drama from the eighteenth century to 1940; the influence of spirituals, gospel, blues, jazz, sermons, and folktales on African American writing; the Harlem renaissance of the 1920s and 1930s; and the development of African American revolutionary thought. Offered fall only.

Equivalent Course: AAS 240

**ENG 241 AFRICAN AMERICAN LITERATURE SINCE 1940**

3, 3/0; DI14, HU14

Realism, naturalism, modernism, and postmodernism in African American literature; black revolutionary thought and artistry in the 1960s and 1970s; neo-slave narratives; African American poetry, fiction, essays, and drama from 1940 to the present; influence of spirituals, gospel, the blues, jazz, sermons, and folktales on contemporary African American writing. Offered spring only.

Equivalent Course: AAS 241

**ENG 243 INTRODUCTION TO LATINX LITERATURE**

3, 3/0; DI14, HU14

Introductory study of themes, ideas, and movements in Latinx literature from the mid-nineteenth century to the present. Offered every semester.

**ENG 245 WRITING ABOUT THE ARTS**

3, 3/0

Prerequisite: CWP 102 and one arts Intellectual Foundations course. Practicum in writing about the arts. Teaches skills essential to developing a discerning critical eye and to communicating critical insights in various forms of writing about the arts. Includes participation in projects that highlight both traditional and contemporary subjects and approaches to arts criticism. Offered annually.

**ENG 247 NATURE WRITING**

3, 3/0

Prerequisite: CWP 102. Students develop an understanding of the nonfiction prose genre of nature writing and improve their ability to produce original works in the genre. Class focuses on reading and analyzing nature writing for its stylistic and thematic features and emphasizes specific writing skills. Explores the connection between the natural and human worlds and various attitudes toward nature as conveyed in examples of the genre. Offered alternate years.

**ENG 250 LITERARY MOVEMENTS**

3, 3/0

Prerequisites: CWP 102 and ENG 190; major in English, English Education, or Writing; or minor in Literary Studies or Film Studies; or approval of the instructor. Study of a literary theme, genre, author, period, or theoretical approach. Offered every semester.

**ENG 252 BRITISH MODERNISM**

3, 3/0; HU14

British modernism, roughly the period from 1900 to 1940. The historical, intellectual and cultural background as well as the study of some of the major literary figures and their work. Offered alternate years.

**ENG 253 TWENTIETH-CENTURY LITERATURE II**

3, 3/0

Literature in English from 1945 to the present. Offered occasionally.

**ENG 254 CULTURALLY DIVERSE AMERICAN LITERATURE IN MIDDLE AND HIGH SCHOOLS**

3, 3/0; DI14

Prerequisite: CWP 102. Focus on diverse American literature taught in secondary English classrooms. Readings drawn from traditional and non-traditional literary texts and popular media representing a wide range of American voices and experiences. This course addresses the role of culturally diverse literature plays in American schools and its incorporation across content areas. Offered every semester.

**ENG 255 THE SHORT STORY**

3, 3/0; HU14

Various examples of influential short fiction produced around the world since the nineteenth century. Familiarizes students with various literary techniques involved in the craft of short fiction. Offered every semester.

**ENG 260 CHILDREN'S LITERATURE**

3, 3/0

Prerequisite: Sophomore, junior, or senior status. Types of children's literature, with attention to the principles of book selection and reading interests of children. Offered every semester.

**ENG 266 THE PERSONAL ESSAY**

3, 3/0

The personal essay and how it both relates to and diverges from more objective forms of essays often encountered in academic contexts. Students practice close reading of essays and compose original essays with peer and instructor evaluations. Offered annually.

**ENG 295 SPECIAL PROJECT**

1-3, 0/0

Prerequisite: Permission of the instructor. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**ENG 300 WRITING FOR THE PROFESSIONS**

3, 3/0

Prerequisite: CWP 102 or equivalent. Practice for students who wish to improve their competence in writing and editing for a variety of professions. Offered every semester.

**ENG 301 ADVANCED COMPOSITION**

3, 3/0

Prerequisites: CWP 102. Practice in writing academic papers. Writing assignments emphasize stylistic strategies, diction, disciplinary conventions, revision and research. Offered occasionally.

**ENG 302 TECHNICAL WRITING**

3, 3/0

Prerequisites: CWP 102 or equivalent. The study of writing for science, industry, and nonprofits. Offered fall only.

**ENG 303 LITERATURE IN FILM**

3, 3/1

The motion picture as a vehicle for literature. Analysis and comparison of verbal and pictorial forms. Offered every semester.

**ENG 304 FORMS OF FILM**

3, 3/1

Breadth and depth of selected film forms. Emphasis on the film as art, medium of communication, and social document. May be taken for credit more than once when content varies. Offered every semester.

**ENG 305 CREATIVE WRITING: NARRATIVE**

3, 3/0

Prerequisite: CWP 102. The writing of narrative. May be taken for credit up to three times with permission of the instructor. Offered every semester.

**ENG 306 CREATIVE WRITING: POETRY**

3, 3/0

Prerequisites: CWP 102, or permission of instructor. The craft of writing poetry, blending theoretical and practical approaches. Explores a variety of established genres and experimental poetic forms, such as the sonnet, sestina, haiku, cynghanedd, concrete poetry, etc. Considers how such forms change across different cultures and eras. May be taken for credit up to three times with permission of the instructor.

**ENG 307 TUTORING AND TEACHING WRITING**

3, 3/0

Prerequisite: CWP 102. Writing-intensive course for undergraduate students who wish to develop better writing skills and gain a theoretical foundation and practical experience in Writing Center tutoring. Explores the role and the craft of the writing tutor. Students gain practical experience in the Writing Center. Offered annually.

**ENG 308 PEER TUTORING PRACTICUM**

1-3, 0/0

Prerequisites: CWP 102; minimum cumulative GPA of 2.5 in English courses. Students meet weekly with Writing Center director, conduct tutoring sessions, and gain practical experience as writing tutors in the Writing Center. Offered occasionally.

ENG 309 TEACHING AND EVALUATING WRITING

3, 3/0

Prerequisite: CWP 102. Methods for teaching and evaluating writing. Includes theories of composition and rhetoric, approaches to teaching composition, ways to respond to writing-in-progress and completed texts, methods of measuring growth, and means to evaluate writing performance. Offered every fall semester.

ENG 311 METHODS IN TEACHING LANGUAGE

3, 3/0

Prerequisite: CWP 102. English-language teaching strategies for secondary education majors. Grammar, usage, and mechanics instruction; the history of English; the right to one's own language; sociopolitical dimensions of language; discussions of correctness within a range of discourse levels; instruction in family-literacy practices. Offered every semester.

ENG 313 MILTON

3, 3/0

Prerequisite: ENG 190 or permission of instructor. A study of Milton's oeuvre with emphasis on Paradise Lost. Offered spring only.

ENG 314 CHAUCER

3, 3/0

Prerequisite: ENG 190 or permission of instructor. A selection of Chaucer's works, including some Canterbury Tales. Offered fall only.

ENG 315 SHAKESPEARE I

3, 3/0

Prerequisite: ENG 190 or THA 316 or permission of instructor. Shakespeare's work to 1600: the sonnets, early tragedies, histories, and comedies. Offered alternate years.

ENG 316 SHAKESPEARE II

3, 3/0

Prerequisite: ENG 190 or THA 316 or permission of instructor. Shakespeare's works after 1600: the problem plays, major tragedies, and romances. Offered alternate years.

ENG 317 SHAKESPEARE FOR FUTURE TEACHERS

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Intensive study of the Shakespeare plays most often taught in high school English classes. Emphasis on strategies for teaching Shakespeare and on particular needs of high school teachers in multicultural settings. Offered annually.

ENG 320 AUTOBIOGRAPHY AND MEMOIR

3, 3/0

Prerequisite: ENG 201 or permission of instructor. A study of the genres of autobiography and memoir with an emphasis on developing mastery in producing written products of the forms. Students read and discuss examples of both autobiography and memoir, write informal and processed examples of the genres, and learn about the process of writing in the genres for publication. Offered alternate years.

ENG 322 REPRESENTATIVE WRITERS

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Selected works of a single writer or group of related writers. Supplemental readings of other writers of the period. This course may be taken more than once for credit when content varies. Offered occasionally.

ENG 325 CREATIVE NON-FICTION

3, 3/0

Prerequisite: ENG 201 or permission of instructor. Reading and writing creative nonfiction, an essay form that consciously uses the stylistic features of fiction and poetry. Offered alternate years.

ENG 327 LITERARY PUBLISHING

3, 3/0

Prerequisite: CWP 102. The applied and historical study of all stages literary publishing from the founding of Poetry: A Magazine of Verse in 1912 to present, including an understanding of both the function of the magazine as a literary force and the interaction of design and text. Practical application via lab hours devoted to editing, designing, and distributing ELJ (Elm Leaves Journal), SUNY-Buffalo State's literary magazine. Offered annually.

ENG 329 DIGITAL LITERACIES IN THE 7-12 ENGLISH CLASSROOM

3, 3/0

Prerequisites: CWP 102, ENG 190, and ENG 200. Focuses on approaches for integrating technology into the English language arts. Emphasis placed on 21st-century literacies, multimodal composing, and reading and writing instruction from a new literacies perspective. Additional focus on the ELA as student content creation and distribution through digital platforms for composing, publishing and sharing student work. Offered every fall.

ENG 330 LITERATURE OF THE BIBLE

3, 3/0

Prerequisite: ENG 190 or permission of instructor. The Bible as literature. Offered alternate years.

ENG 331 FRENCH LITERATURE IN TRANSLATION

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Selected masterpieces of contemporary French literature in translation. Knowledge of French not required. French majors must obtain permission of department chair and course instructor. Offered alternate years.

Equivalent Course: FRE 331

ENG 332 RUSSIAN LITERATURE IN TRANSLATION

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Writers such as Gogol, Pushkin, Turgenev, Goncharova, Tolstoy, Dostoyevsky, and Chekhov. Knowledge of Russian not required. Offered occasionally.

ENG 335 MEDIEVAL AND RENAISSANCE EUROPEAN LITERATURE

3, 3/0

Prerequisite: ENG 190 or permission of instructor. A study of selected themes, ideas, and movements of European literature in the medieval and Renaissance periods. Offered occasionally.

ENG 337 MODERN EUROPEAN LITERATURE

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Selected themes, ideas, and movements of European literature from the Renaissance to postmodernity. Offered occasionally.



### ENG 340 PLAYWRITING

3, 3/0

Prerequisite: THA 316 or TFA 310 or ENG 305 or permission of instructor. Students will use research, script analysis and writing skills to develop and refine the script for a stage or screenplay. Offered occasionally.

Equivalent Course: THA 340

### ENG 345 WORLD LITERATURE AFTER 1945

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Post-World War II literature around the globe. Poetry and fiction along with the cultural background of at least two continents. Offered annually.

### ENG 346 NON-WESTERN LITERATURE AFTER 1945

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Non-Western literature: poetry, fiction, and drama along with historical and cultural backgrounds of literature outside Europe and North America. Offered annually.

### ENG 350 TWENTIETH-CENTURY DRAMA I

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Drama from the 1800s to 1950 in Europe and America. Offered occasionally.

### ENG 351 TWENTIETH-CENTURY DRAMA II

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Exploration of selected works from the extensively-varied ethnicities, nationalities, and styles of world drama in their literary and theatrical contexts since the absurdism of the 1950's into the present. Offered occasionally.

### ENG 353 AMERICAN INDIAN LITERATURE

3, 3/0; DI14, NW14

Prerequisite: CWP 102. Selected aspects of traditional sacred and secular tales and contemporary American Indian literature in its cultural, historical and aesthetic contexts. Offered every semester.

### ENG 354 ETHNIC AMERICAN MINORITY LITERATURES

3, 3/0; CT14, DI14, IM14, WIIF

Prerequisite: CWP 102. The background, development, and contemporary contribution of ethnic American minority literature (folklore, poetry, short story, novel, biography, and play) and individual authors. The literary characteristics of the literature, its contribution to the field of American literature, and its place in today's society. Offered every semester.

### ENG 356 SPECULATIVE FICTION

3, 3/0; DI14

Prerequisite: CWP 102. History, aesthetics, and social significance of Speculative Fiction by diverse American authors; multicultural writers and movements of the genre; literary themes and techniques in individual works. Offered every fall.

### ENG 361 CONTEMPORARY LITERATURE

3, 3/0

Prerequisite: ENG 190 or permission of instructor. Reading, discussion, and analysis of literature written in the last 25 years. Literary features and literary theories. Offered alternate years.

### ENG 370 FOUNDATIONS OF LANGUAGE

3, 3/0

The structure of language with emphasis on English, relation to speech and writing. Language families and their relationships. Language change. Significance of regional and social dialects. Offered every semester.

### ENG 380 THE HISTORY OF THE PRINTED BOOK

3, 3/0; WC14

Prerequisites: CWP 102 or the equivalent. Analysis of the printed book as a physical, historical, social, aesthetic and cultural object. Course requires original bibliographical research. Offered alternate years.

### ENG 385 GENDER AND SEXUALITY IN LITERATURE

3, 3/0; DI14

Prerequisite: ENG 190 or instructor permission. Elements of gender and sexuality in British, American, or world literature: themes, historical periods, philosophies, theories, and movements. May be taken for credit up to three times when content varies. Offered annually.

### ENG 389 TOPIC COURSE

1-3, 3/0

Variable credit (1-3 hours). Advanced study of a topic in English literature, English Education, or creative or technical writing. Offered occasionally.

### ENG 390 LITERARY CRITICISM AND THEORY

3, 3/0; CT14, IM14, WIIF

Prerequisites: ENG 190 & ENG 250; major in English, English Education, or Writing; minor in Literary Studies or Film Studies; or approval of the instructor. The major movements, critics, and ideas that comprise modern literary theory, such as formalism, psychoanalytical theory, feminism, ethnic studies, structuralist and poststructuralist studies, Marxism, new historicism. Offered every semester.

### ENG 391 JUNIOR SEMINAR

3, 3/0

Prerequisites: ENG 190 and ENG 250; major in English or English Education or Writing; or minor in Literary Studies or Film Studies; or instructor permission. Seminar featuring disciplinary research, applied work, and possible careers; focus on advanced skills (such as abstract composition, article publication, conference publication) associated within and outside the discipline. Offered every semester

### ENG 402 ADVANCED CREATIVE WRITING: NARRATIVE

3, 3/0

Prerequisites: CWP 102; ENG 305; or permission of the instructor. A study of prose narrative and the craft of its writing. Offered alternate years.

### ENG 403 ADVANCED CREATIVE WRITING: POETRY

3, 3/0

Prerequisite: CWP 102; ENG 306; or permission of instructor. Creative workshop for students experienced and/or talented in the writing of poetry. Offered alternate years.

### ENG 404 STUDIES IN CINEMA

3, 3/0

Prerequisites: CWP 102 and ENG 205 or permission of instructor. Advanced study of key figures, institutions, nations or regions, genres, eras, technologies, motifs, techniques, or other aspects of film. Application of film theory and student research to the critical analysis of cinema. Offered alternate years.

ENG 409 WRITING GRANTS AND PROPOSALS

3, 3/0

The study of writing grants and proposals for science, industry, and the nonprofit sector. Offered spring semester only.

ENG 410 COMPOSITION AND RHETORICAL THEORY

3, 3/0; CT14, IM14, WIIF

Prerequisite: ENG 201. Trends in contemporary composition and rhetorical theory with an emphasis of the theory of discourse communities. Students develop skills in producing critical, theoretical, creative, and rhetorical discourse. Offered fall only.

ENG 415 SEVENTEENTH-CENTURY BRITISH LITERATURE

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. Literature of seventeenth-century England. Offered occasionally.

ENG 416 EIGHTEENTH-CENTURY ENGLISH LITERATURE

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. Literature of eighteenth-century Britain. Offered alternate years.

ENG 417 BRITISH NOVEL TO 1800

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. Study of selected themes, issues, and authors in the novel in Britain before 1800. Offered occasionally.

ENG 418 THE BRITISH NOVEL, 1800-1900

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. An exploration of British novels written between 1800 and 1900. Offered occasionally.

ENG 419 ROMANTIC MOVEMENT IN BRITISH LITERATURE

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. Representative English romantic writers. Offered occasionally.

ENG 420 EARLY VICTORIAN LITERATURE

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. English writers 1832-1859. Offered occasionally.

ENG 421 LATER VICTORIAN LITERATURE

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. English writers 1859-1914. Offered occasionally.

ENG 422 JAMES JOYCE AND HIS CONTEMPORARIES

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. The major fiction of James Joyce. Supplemental readings of other writers of the period. Offered occasionally.

ENG 441 THE ROMANTIC MOVEMENT IN AMERICAN LITERATURE

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. Texts that exemplify the American Transcendental and Romantic traditions of New England, and their impact on American literature, philosophy and politics. Offered alternate years.

ENG 442 THE AMERICAN NOVEL TO 1900

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. Representative American novels to 1900. Includes major modes of American fiction and the relationships among them. Historical, social, and artistic developments of the American novel to 1900. Offered alternate years.

ENG 443 AMERICAN POETRY AFTER 1900

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. The rich and diverse terrain of American poetry of the twentieth century from a historical perspective. Major figures, major movements, and the interrelationships among them. Offered alternate years.

ENG 444 THE AMERICAN NOVEL AFTER 1900

3, 3/0

Prerequisites: A grade of C or higher in ENG 190 and 3 credit hours of literature, or permission of instructor. Representative American novels after 1900. Includes major modes of American fiction and the relationships among them. Historical, social, and artistic developments of the twentieth century. Offered alternate years.

ENG 445 AMERICAN REALISM

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. A focused study of a major American literary movement, Realism, its major and minor figures, and the historical and cultural milieu of nineteenth-century America out of which Realism emerged. Offered alternate years.

ENG 447 SELECTED TOPICS IN DIVERSE LITERATURE

3, 3/0

Advanced study of a selected period, writer(s), or movement in diverse literature. Offered every spring.

ENG 450 STUDIES IN POETRY

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. A particular aspect of poetry: theme, motif, philosophy, concept, or literary movement in English, American, or world literature. May be taken for credit more than once when content varies. Offered occasionally.

ENG 451 STUDIES IN FICTION

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. Analysis of selected aspects of the novel, novella, or short story: theme, motif, concept, or movement in English, American, or world literature. May be taken more than once when content varies. Offered occasionally.

ENG 452 STUDIES IN DRAMA

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. A particular aspect of drama or theater history: a theme, period, genre, philosophy, concept, or movement in British, American, or world literature. May be taken for credit more than once when content varies. Offered occasionally.

ENG 454 TWENTIETH-CENTURY NOVEL I

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. Major British and American novels from 1914 to 1945. Offered occasionally.

ENG 455 THE BRITISH NOVEL AFTER 1900

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. A study of major twentieth-century British novels. Philosophies and theories suggested by the texts, including modernism and postmodernism, and the cultural climate since 1900 explored. Offered occasionally.

ENG 461 YOUNG-ADULT LITERATURE

3, 3/0

Prerequisites: ENG 190 and 3 credit hours of literature, or permission of instructor. Literature appropriate to students in grades 7-12. Offered every semester.

ENG 462 SEMINAR IN STUDENT TEACHING FOR ENGLISH EDUCATION

3, 3/0

Prerequisite: Permission of instructor. Corequisite: ENG 464/465. Planning, instruction, assessment, reflective practice and classroom management strategies for the secondary English Education teacher. Includes comprehensive support for planning and completing the edTPA requirement. Offered every semester.

Equivalent Course: ENG 466

ENG 463 METHODS, MATERIALS, AND PROFESSIONAL DEVELOPMENT FOR TEACHERS OF ENGLISH

6, 6/0; CT14, IM14, WIIF

Prerequisites: SPF 303, ENG 200; minimum cumulative GPA of 2.75 in major. Methods and materials necessary to become an effective teacher of English. Includes secondary school curriculum, New York State standards for the language arts, planning, assessment, and classroom management. Additional emphasis on professional development with on-site observations, practice teaching sessions, and interactions with public-school teachers and personnel. Offered every semester.

ENG 464 STUDENT TEACHING IN MIDDLE SCHOOL/ JUNIOR HIGH SCHOOL ENGLISH

6, 0/0

Corequisite: ENG 466. Prerequisites: ENG 200, ENG 309, ENG 463, SPF 303, SPF 403, and EDU 416; minimum cumulative GPA of 2.75 in English; and professional education courses. Full-time practice teaching, five days a week for seven weeks in a middle school/junior high school situation. College supervision biweekly. Elementary extension students teach one situation. Required for upper-division students in secondary English and elementary education extension students. Offered every semester.

ENG 465 STUDENT TEACHING IN SENIOR HIGH SCHOOL ENGLISH

6, 0/0

Prerequisites: ENG 200, ENG 309, ENG 463, SPF 303, SPF 403, and EDU 416; minimum cumulative GPA of 2.75 in English; and professional education courses. Full-time practice teaching, five days a week for seven weeks in a senior high school situation. College supervision biweekly. Required for upper-division students in secondary English. Offered every semester.

ENG 466 SEMINAR IN STUDENT TEACHING FOR ENGLISH EDUCATION

3, 3/0

Prerequisite: Instructor Permission. Corequisite: ENG 464. Planning, instruction, assessment, reflective practice and classroom management strategies for the secondary English Education teacher. Includes comprehensive support for planning and completing the edTPA requirement. Offered every semester.

Equivalent Course: ENG 462

ENG 472 ENGLISH GRAMMARS

3, 3/0

Theories and methods of grammatical study. Offered occasionally.

ENG 488 INTERNSHIP

1-15, 0/0

Prerequisites: Minimum cumulative GPA of 2.0; upper-division status. Field experiences that supplement departmental academic offerings; geared to students' interests. Faculty intern supervisor and department chair permission necessary. Offered occasionally.

ENG 490 SENIOR SEMINAR

3, 3/0; CT14, IM14, WIIF

Prerequisites: ENG 390, ENG 391; major in English, English Education, or Writing; minor in Literary Studies or Film Studies; or approval of the instructor. ENG 190 and 3 credit hours of literature, or permission of instructor. Advanced study of a literary theme, genre, author, period, or theoretical approach. Offered every semester.

ENG 491 WRITING SEMINAR FOR WRITING MAJORS

3, 3/0

Prerequisites: ENG 201 and three hours of literature/writing classes. Senior standing. Writing major. Advanced study of writing, publishing, and literary markets with particular attention to improving and reflecting on literary craft as a dynamic process. Each student will develop a major body of work as a demonstration of individual writing processes, identified points of personal progress, and potential contributions to the literary market. Offered alternate years.

ENG 495 SPECIAL PROJECT

3, 0/0

Offered occasionally.

ENG 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisites: ENG 390. Substantial research project in literary criticism, literary history, textual studies, or a related field. Offered occasionally.

## English Language Secondary (ELS)

### ELS 099 ENGLISH LANGUAGE SECONDARY PROGRAM

0, 3/0  
ELSP is a non-degree, non-credit developmental course designed to help students with varying levels of English proficiency through coursework, interaction with native speakers of English, and Individualized language practice. This program consists of six levels of English Language study. Each level has 30 hours of class time per week, plus an additional 3 hours of small conversation group practice.

## English Second Language (ESL)

### ESL 303 FOUNDATIONS OF ESL AND BILINGUAL EDUCATION

3, 3/0  
Prerequisites: Instructor Permission. Introduction to the historical, psychological, social and philosophical foundations of ESL and Bilingual instruction.

### ESL 389 TOPICS COURSE

3, 3/0  
Topics Course

### ESL 401 METHODS OF TEACHING ESL

3, 2/0  
Prerequisites: ESL303 or Instructor Permission. Exploration of the research, standards, and pedagogical practices that inform professional English as a Second Language teaching.

### ESL 403 CONTENT AREA ESL INSTRUCTION

3, 3/0  
Prerequisites: ESL401 or Instructor Permission. Methods and materials used to teach core subject areas in English to limited proficiency students, including those with disabilities.

### ESL 404 ASSESSMENT IN THE ESL AND BILINGUAL CLASSROOM

3, 3/0  
Prerequisites: ESL 401. Exploration of assessment protocols employed in ESL and Bilingual classrooms.

### ESL 407 MIDDLE SCHOOL ESL TEACHING

6, 0/0  
Prerequisites: ESL401 and Instructor Permission. Supervised foreign language teaching in a middle school five days per week for seven weeks with additional participation in school programming required.

### ESL 408 HIGH SCHOOL ESL TEACHING

6, 0/0  
Prerequisites: completion of all program requirements; completion of Oral Proficiency Interview; instructor permission. Supervised foreign language teaching in a high school five days per week for seven weeks with additional participation in school programming required.

## Environmental Science (ENS)

### ENS 100 URBAN ENVIRONMENTAL SCIENCE

3, 3/0; NS14  
Survey of environmental science exploring the consequences to Buffalo from environmental and technological changes over the past century. Strong interdisciplinary focus with emphasis on the connections between our urban environment and human health. Topics include air and water quality, environmental stresses in the urban ecosystem, and environmental exposure to urban pollution and human health.

### ENS 300 ENVIRONMENTAL CASE STUDIES

3, 3/0; WIIF  
Prerequisites: Completion of IF natural science requirement and upper division standing. Examines environmental literature and case studies on historically important and current environmental issues. Distinctions between facts, opinions and value judgments to evaluate and judge real situations. Global in scope; social contexts and national and global environmental policies. Offered alternate years. Equivalent Course: ENS 410

### ENS 410 SEMINAR IN ENVIRONMENTAL STUDIES

3, 0/0  
ENS 410  
Equivalent Course: ENS 300

## Exceptional Education (EXE)

### EXE 100 NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS

3, 3/0; DI14  
Understanding the nature and needs of individuals with disabilities, including the implications for schools and society. Required for exceptional education majors. Offered every semester.

### EXE 221 FOUNDATIONS OF EFFECTIVE ASSESSMENT AND INSTRUCTION IN SPECIAL EDUCATION

3, 3/0  
Prerequisites: EXE 100 (minimum grade of C or higher); Exceptional Education Major Status; 2.6 overall GPA. Foundation in effective assessment and instructional practices for all students. Basic understanding of different types of assessment and how to interpret assessment information to form goals and objectives related to individualized instruction. Essential principles related to effective instruction for students with disabilities. Offered every semester.

### EXE 245 COMMUNITY SERVICE WITH INDIVIDUALS WITH SPECIAL NEEDS

1-9, 0/1  
Service in community agencies with individuals who are exceptional. May be taken for 1, 2, or 3 credit hours. Offered in every semester.

### EXE 295 EXCEPTIONAL EDUCATION UNDERGRADUATE PROJECT

1-3, 0/0  
Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### EXE 306 BEHAVIOR MANAGEMENT

3, 3/0  
EXE 306

EXE 310 LEARNING AND BEHAVIORAL DISORDERS OF STUDENTS

6, 12/0

EXE 310

EXE 320 EDUCATIONAL EVALUATION FOR SPECIAL EDUCATION

3, 0/0

EXE 320

EXE 321 REMEDIATING AND ADAPTING LITERACY INSTRUCTION FOR STUDENTS WITH AND AT RISK FOR DISABILITIES

3, 3/0

Corequisites: EDU 322. Prerequisites: EXE 100 (minimum grade of C or higher); EXE 221 (minimum grade of C or higher); EDU 211 (minimum grade of C or higher); Exceptional Education Major Status; 2.6 overall GPA; CWP 102; 1 from: ECO 305, MAT 103, MAT 114, MAT 122, MAT 124, MAT 126, MAT 161, MAT 311, PHI 107.

Developing teacher candidates' knowledge and skills for effectively serving elementary-aged students with and at risk for disabilities in the area of literacy. Offered every semester.

EXE 323 FIELD PLACEMENT IN LITERACY METHODS FOR CHILDREN WITH AND WITHOUT DISABILITIES

3, 0/0

Corequisites: EXE 321 and EDU 322. Prerequisites: EXE 100 (minimum grade of C or higher); EXE 221 (minimum grade of C or higher); EDU 211 (minimum grade of C or higher); Exceptional Education Major Status; 2.6 overall GPA; CWP 102; 1 from: ECO 305, MAT 103, MAT 114, MAT 122, MAT 124, MAT 126, MAT 161, MAT 311, PHI 107. Field experience course in literacy methods emphasizing assessment and instructional design and delivery. Includes effective practices for students with typical development, at-risk and with disabilities. Offered every semester.

Equivalent Course: EDU 323

EXE 324 SIGN LANGUAGE FOR STUDENTS WITH AUTISM AND DEVELOPMENTAL DISABILITIES

3, 3/0

Overview of the nature and characteristics of Autism Spectrum Disorder (ASD) and the impact ASD has on communication. Evidence-based assessments/interventions for communication/behavioral aspects of ASD. Communication skills for individuals with ASD and/or other developmental disabilities/delays using functional sign language. Offered spring only.

EXE 330 INDIVIDUALS WITH MILD DISABILITIES

3, 3/0

EXE 330

EXE 331 INDIVIDUALS WITH MODERATE/SEVERE/ AND MULTIPLE DISABILITIES

3, 3/0

EXE 331

EXE 340 CURRICULUM FOR INDIVIDUALS WITH MILD DISABILITIES

3, 0/0

EXE 340

EXE 341 CURRICULUM FOR INDIVIDUALS WITH MODERATE/SEVERE/MULTIPLE DISABILITIES

3, 0/0

EXE 341

EXE 343 FIELD PLACEMENT FOR TEACHING ELEMENTARY SCHOOL MATHEMATICS

3, 3/0

Prerequisites: EXE 321 (minimum grade of C or higher); EDU 322 (minimum grade of C or higher); EXE/EDU 323 (minimum grade of C or higher); Exceptional Education Major Status; 2.6 overall GPA. Corequisites: EDU 342; EXE 344. Field experience course in elementary school mathematics. Students plan, implement, differentiate, and evaluate mathematics lessons; administer and evaluate assessment tools and processes; become reflective practitioners; and demonstrate effective techniques for instructional organization in an elementary school. Students design and implement plans that address elementary student deficits in mathematics.

Equivalent Course: EDU 343

EXE 344 TEACHING MATHEMATICS TO STUDENTS WITH AND AT RISK FOR DISABILITIES

3, 3/0

Identifying the learning characteristics of students with disabilities and those considered at-risk in math. Assessing and planning evidenced-based, tiered math instruction to address skill deficits and conceptual understanding of elementary, standards-based mathematics.

EXE 360 FOUNDATIONS OF TEACHING INDIVIDUALS WITH DISABILITIES

3, 3/0

Prerequisite: EXE 100, Exceptional Education Major Status, at least 2.6 overall GPA CWP 102, and 1 from: ECO 305, MAT 103, MAT 114, MAT 122, MAT 124, MAT 126, MAT 161, MAT 311, PHI 107. Corequisite: EXE 361. Adaptations and instructional procedures necessary for effective instruction of students with disabilities in various educational settings. Must be taken concurrently with EXE 361. Offered every semester.

EXE 361 FIELD EXPERIENCE IN FOUNDATIONS OF TEACHING INDIVIDUALS WITH DISABILITIES

1, 0/1

Prerequisite: EXE 100, Exceptional Education Major Status, at least 2.6 overall GPA. Corequisite: EXE 360. Application of adaptations and instructional procedures learned in EXE 360. Must be taken concurrently with EXE 360. Offered every semester.

EXE 362 BEHAVIOR AND CLASSROOM MANAGEMENT

3, 3/0

Prerequisites: EXE 100 (minimum grade of C or higher for EXE majors); Exceptional Education Major or Childhood Education Major Status; 2.6 overall GPA for EXE majors. Understanding the nature of behavior. Developing awareness of tools and strategies for managing the classroom environment and instruction to minimize challenging behavior. Techniques for handling challenging student behaviors. Offered every semester.

Equivalent Course: EXE 306

EXE 363 FIELD EXPERIENCE IN BEHAVIOR MANAGEMENT

1, 0/1

Prerequisites: exceptional education major. Application of principles of behavior management learned in EXE 362 through on-site participation. Must be taken concurrently with EXE 362. Required for exceptional education majors. Offered every semester.

**EXE 364 EDUCATING STUDENTS WITH SEVERE DISABILITIES**

3, 3/0

Prerequisites: EXE 100, Exceptional Education Major Status, 2.6 overall GPA, CWP 102, and 1 from: ECO 305, MAT 103, MAT 114, MAT 122, MAT 124, MAT 126, MAT 161, MAT 311, PHI 107. Characteristics and needs of individuals with severe disabilities and those of their families. Methods to teach and support individuals and families. Offered every semester.

**EXE 365 EVALUATION AND ASSESSMENT IN SPECIAL EDUCATION**

3, 3/0

Prerequisites: Completed EXE 100, EXE 360, EXE 361, EXE 362, and EXE 363 with grade of C or higher, Exceptional Education Major Status, at least 2.6 overall GPA. Corequisite: EXE 366. Introduction to the educational evaluation and assessment of students with disabilities. Offered every semester.

**EXE 366 FIELD EXPERIENCE IN EVALUATION AND ASSESSMENT**

1, 0/1; WIIF

Prerequisites: Completed EXE 360, EXE 361, EXE 362, and EXE 363 with a grade of C or higher, Exceptional Education Major Status, at least 2.6 overall GPA. Corequisite: EXE 365. Application of principles of evaluation and assessment learned in EXE 365W through on-site participation. Offered every semester.

**EXE 367 CURRICULUM FOR CHILDREN WITH MILD DISABILITIES**

3, 3/0; WIIF

Prerequisites: Completed EXE 360, EXE 361, EXE 362, and EXE 363 with a grade of C or better, Exceptional Education Major Status, at least 2.6 overall GPA. Corequisite: EXE 368. Description and discussion of curricular design and implementation for children with disabilities. Offered every semester.

Equivalent Course: EXE 367W

**EXE 368 FIELD EXPERIENCE IN CURRICULUM FOR CHILDREN WITH MILD DISABILITIES**

2, 0/2; CT14, IM14, WIIF

Prerequisites: Completed EXE 360, EXE 361, EXE 362, and EXE 363 with a grade of C or higher, Exceptional Education Major Status, at least 2.6 overall GPA. Corequisite: EXE 367. Application of curriculum design and implementation for children with disabilities. Offered every semester.

**EXE 371 FOUNDATIONS OF TEACHING CHILDREN WITH DISABILITIES**

3, 3/0

Prerequisite: EXE 100 with grade of C or higher, Elementary Education Major Status. Adaptations, procedures, and management systems necessary for effective instruction of children with disabilities in general education settings. Offered every semester.

**EXE 372 FOUNDATIONS OF TEACHING ADOLESCENTS WITH DISABILITIES**

3, 3/0

Prerequisite: EXE 100. Adaptations and instructional procedures necessary for effective instruction of adolescents with disabilities. Recommended for secondary education majors. Offered spring only.

**EXE 373 FOUNDATIONS OF TEACHING MIDDLE SCHOOL STUDENTS WITH DISABILITIES**

3, 3/0

Prerequisite: EXE 100. Focus on instructional procedures necessary for effective instruction of middle school students with disabilities and those at risk. Adaptations and management strategies for meeting the needs of middle school students in a variety of academic and social settings. Offered occasionally.

**EXE 375 INTEGRATION OF TECHNOLOGY IN EDUCATION**

3, 3/0

Prerequisite: EXE 100, Exceptional Education Major Status, 2.6 overall GPA, CWP 102, and 1 from: ECO 305, MAT 103, MAT 114, MAT 122, MAT 124, MAT 126, MAT 161, MAT 311, PHI 107. Can be taken during student teaching for childhood education majors. This course is designed to provide the pre-service teacher with an awareness of the current range of instructional and adaptive technologies. Emphasis is placed on factors relating to curricular integration of technology within the general and special education classroom. Students receive hands-on experience with the use of instructional software, web sites and adaptive/assistive technologies. Offered every semester.

Equivalent Course: EDU 375

**EXE 389 TOPICS COURSE**

1-3, 0/0

Offered occasionally.

**EXE 390 STRATEGIES AND TECHNOLOGY TO ADAPT CONTENT AREA INSTRUCTION**

3, 3/0

Prerequisites: Grades of C or higher in all EXE and EDU Courses; Exceptional Education Major Status; 2.6 overall GPA. Co-requisite: EXE 420. Learning to design, adapt, and deliver instruction so students with disabilities and other at-risk learners can access content area curriculum. Key concepts include learning strategy instruction, content enhancement routines, instructional adaptations, and use of assistive and instructional technology tools. Offered every semester.

**EXE 411 PARENTS, SCHOOLS, AND COMMUNITY**

3, 3/0

EXE 411

Equivalent Course: EDU 411

**EXE 420 PRACTICUM IN SPECIAL EDUCATION**

6, 3/0

Prerequisites: Minimum grade of C in EXE 365 or EXE 344, EXE 366, EXE 367, EXE 368; minimum cumulative GPA of 2.6 (overall and in major courses). Undergraduate student teaching experience with individuals needing special education services, completed in public, private, or charter school classrooms, private agency classrooms, or classrooms in residential settings. Required for undergraduate students seeking certification as a teacher of special education. Offered every semester.

**EXE 495 SPECIAL PROJECT**

1-3, 0/0

Offered occasionally.

**EXE 499 INDEPENDENT STUDY**

3-12, 3/0

Offered occasionally.

# Family & Consumer Sciences Edu (FCS)

## FCS 301 PRINCIPLES OF BUSINESS/MARKETING AND TECHNOLOGY EDUCATION

3, 3/0

Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program. Offered every semester.

Equivalent Courses: BME 301, CTE 301

## FCS 302 CURRICULUM AND EVALUATION IN BUSINESS/MARKETING AND TECHNOLOGY EDUCATION

3, 3/0

Introduction to the curriculum and evaluation in business/marketing and technology education. State curriculum and standards, lesson planning, student learning, and curriculum evaluation. Offered every semester.

Equivalent Courses: BME 302, CTE 302

## FCS 303 INSTRUCTIONAL STRATEGIES IN BUSINESS AND MARKETING

3, 3/0

Instructional strategies dealing with classroom management, classroom environment, and educational technologies. 100 hours of field experience prior to student teaching required. Offered every semester.

Equivalent Course: BME 303

## FCS 404 APPLIED TEACHING METHODS IN BUSINESS/MARKETING

3, 3/0

Prerequisites: BME/CTE/FCS 301 and BME/CTE/FCS 302. Basic principles and methods of teaching business and marketing subjects. Prepares the student to effectively teach subjects in this area. Offered every semester.

Equivalent Courses: BME 411, CTE 404

## FCS 415 STUDENT TEACHING I

6, 0/0

Prerequisites: Senior standing; completion of business core area and BME 411; 2.5 cumulative average in major subject area; 2.0 cumulative average in total program; C or better in CWP 101 and CWP 101; satisfactory completion of (or exemption from) prerequisite EXE 100 Student Speech Clinic if referred. Full-time teaching in a public school for one semester under the supervision of a master teacher and a college supervisor. Offered every semester.

Equivalent Course: BME 415

## FCS 416 STUDENT TEACHING II

6, 0/0

Prerequisites: Senior standing; completion of business core area and BME 411; 2.5 cumulative average in major subject area; 2.0 cumulative average in total program; C or better in CWP 101 and CWP 101; satisfactory completion of (or exemption from) prerequisite EXE 100 Student Speech Clinic if referred. Full-time teaching in a public school for one semester under the supervision of a master teacher and a college supervisor. Offered every semester.

Equivalent Course: BME 416

## FCS 499 INDEPENDENT STUDY

3-30, 0/0

# Fashion & Textile Technology (FTT)

## FTT 100 CONSTRUCTION FUNDAMENTALS

1, 1/1

Fundamental construction techniques used in the apparel industry; proficiency in basic construction details using both domestic and industrial sewing equipment. Offered occasionally.

## FTT 109 FUNDAMENTALS OF APPAREL CONSTRUCTION

3, 2/2

Basic beginning techniques of apparel construction using commercially available patterns; introduction to sewing equipment, measuring techniques, fabric selection, fit, and alterations; evaluation and comparison of garments completed as assignments to similar apparel available through retail sources. Offered every semester.

## FTT 110 FUNDAMENTALS OF THE FASHION INDUSTRY

3, 3/0

Introductory course of the global textile and fashion industry; an overview of the textile/apparel design product development process; design principles and elements; quality of the finished product; career opportunities in the fashion industry. Offered every semester.

## FTT 150 FASHION MERCHANDISING

3, 3/0

Focuses on macro environmental factors surrounding the fashion business and fashion consumers. Analysis on apparel statistics and market data to develop insight into business trends and consumer behavior in the fashion industry. Emphasis on fashion merchandising principles and ethical and sustainable business practices in the fashion industry. Offered every semester.

## FTT 189 TOPIC COURSE

1-3, 0/0

Current topics in Fashion and Textile Technology, Lower level. Offered occasionally.

## FTT 200 INTRODUCTION TO HAND KNITTING

3, 2/2

Gain experience in beginning hand-knit design. Emphasis on the basic principles of hand knitting, structure and types of hand stitches, traditional and ethnic knit designs, and development of original hand-knit designs. Offered occasionally.

## FTT 206 INTRODUCTION TO TEXTILES

3, 3/0

Basic introduction to the production, use, and selection of textiles and textile products; covers fibers, yarns, fabric production, dyeing, printing, finishing, performance characteristics, care, and textile-specific legislation; addresses sustainability and environmental-related issues related to textiles and textile production. Offered every semester.

**FTT 208 INTRODUCTION TO FASHION TECHNOLOGIES**

3, 2/2

Introduction to and multi-disciplinary hands-on experience with a variety of software programs used in the fashion industry. Offered every semester.

**FTT 224 PATTERN DRAFTING AND GRADING FOR INDUSTRY**

3, 2/2

Prerequisites: FTT 109 or instructor permission. Introduction to technical patternmaking skills; emphasis on the development of basic traditional and computer drafting and grading skills; students produce a drafted sloper manually and on the computer that will be graded on the computer into a nested pattern. Offered every semester.

**FTT 250 FASHION BUYING AND MERCHANDISING PRINCIPLES**

3, 3/0

Prerequisite: FTT 150. Mathematical factors involved in profitable merchandising; concepts, practices, and procedures, as well as the calculations and interpretations of figures related to operations of stores. Offered every semester.

**FTT 252 FASHION STYLING**

3, 2/2

This is an introduction to the study of a stylist's role in print, digital media, image management, fashion shows and entertainment. This course is highly interactive, with applied learning activities and creative assignments. The specifics of styling responsibilities, portfolio building, and fashion industry professionalism are taught. Offered every fall.

**FTT 300 KNIT TECHNOLOGY I**

3, 2/2

Prerequisite: FTT 206 or permission of instructor. Basic principles of computerized machine weft knitting; understanding the relationships of yarn, color, stitch types, and gauge; charting and producing stitch designs by machine. Offered occasionally.

**FTT 303 FASHION ILLUSTRATION/DRAWING I**

3, 2/2

Foundation skills in fashion illustration; the fashion figure, poses, and garment and fabric sketching; includes illustration of a garment collection for professional portfolio development. Offered every semester.

**FTT 304 SURFACE PATTERN DEVELOPMENT FOR INDUSTRY**

3, 2/2

Prerequisites: FTT 208 or instructor permission. Creation of original motifs for prints that are targeted for the fashion products markets; professional methods for transforming original motifs into commercial digital surface patterns and/or graphic prints (using Adobe Photoshop & Illustrator); color reduction and cleaning; basic repeat development; colorway development based on manufacturer requirements, awareness of current color and graphic trends, marketability, and industry standards. Offered every semester.

**FTT 306 TEXTILE EVALUATION**

3, 2/2

Prerequisites: FTT 110, FTT 206. Advanced textiles course focused on fabric performance evaluation and quality; understanding of standard test methods commonly used in the textile and apparel industry; use of equipment and techniques to assess selected physical and aesthetic properties of textile products. Offered every semester.

**FTT 308 FASHION CAD (Computer Aided Design)**

3, 2/2

Prerequisites: FTT 208 or instructor permission. Intermediate multi-faceted skill expansion for fashion product design, technical development, using Adobe Photoshop & Illustrator. Fashion product design line/collection development; electronics and Web-based portfolio presentation. Offered every semester.

**FTT 310 SEWN PRODUCTS INDUSTRY**

3, 3/0

Prerequisites: FTT 306 or permission of instructor. Overview of organization and government regulations of fashion business selection of raw materials; designing and pattern development; sizing and evaluation of fit; manufacturing process, quality specifications and relationship between cost and quality. Offered every semester.

**FTT 324 INDUSTRIAL APPAREL ASSEMBLY**

3, 2/2

Prerequisite: FTT 109. Focus on design room techniques utilized in both couture and mass production of apparel. Emphasis on equipment; appropriate selection of style, color, and fiber content of construction materials; alteration techniques used to achieve proper-fitting garments and mastery of selected couture; and industrial construction processes. Offered every semester.

**FTT 326 TRADITIONAL/COMPUTER FLAT PATTERN**

3, 2/2

Prerequisite: FTT 224 or instructor permission. Introduction to traditional and computer flat pattern method of pattern making; emphasis placed on design and completion of selected items of apparel developed from a basic sloper. Offered every semester.

**FTT 327 2D/3D COMPUTER PATTERNMAKING**

3, 2/2

Prerequisites: FTT 326 or instructor permission. Apparel patterns are modified and graded in 2D and simulated in 3D through the use of an industrial multidimensional software; hand pattern drafting techniques are adapted to the computer by creating a virtual custom dress from a body scan and applying pattern modifications in order to create a variety of intermediate to advanced garment style patterns that are simulated in 3D on a virtual avatar. Offered every semester.

**FTT 328 APPAREL DESIGN III: DRAPING**

3, 2/2

Prerequisites: Prerequisites: FTT 109 and FTT 224 or permission of instructor. Clothing design using the draping technique is a pattern-making method that is visual and aesthetic. Emphasis is on the creation of basic garment patterns using draping method. Experience with the manipulation of a variety of two-dimensional fabrics to cover three-dimensional forms using a variety of fabrics to achieve individualized designs. Offered every semester.



### FTT 329 DESIGNING KNIT APPAREL

3, 2/2

Prerequisites: FTT 109, FTT 224, or permission of instructor. Design/construction of garments utilizing various types of knit fabrics. Pattern-making practices of the knitwear industry, including industrial methods of measuring, sewing, and finishing original knit designs. Offered fall only.

### FTT 348 HISTORY OF COSTUME

3, 3/0

Survey of dress from earliest period to the present with emphasis on the societal influences that evoke changes in and recurrence of fashion trends. Offered fall only.

### FTT 349 HISTORY OF TEXTILES

3, 3/0; NW14

Prerequisites: FTT 206 and junior standing or permission of instructor. Political, cultural, and economic effects of textile production throughout the world. Use of fibers, yarns, fabric construction, color application, and finishes in relation to development of technology, labor movements, and social issues during historic periods on a global basis. Offered alternate years.

### FTT 350 FASHION MERCHANDISING APPLICATIONS

3, 3/0

Prerequisites: FTT 208, FTT 250. Hands-on experience with spreadsheet package used in the fashion industry for tasks such as inventory management, pricing, assortment planning, etc. Strategies for next season/year formulated based on analysis and evaluation of data. Preparation of profit/loss statements and presentation of financial report using Power Point. Offered every semester.

### FTT 355 RESEARCH IN FASHION MERCHANDISING

3, 3/0

Prerequisite: FTT 150. Introduction to merchandising research; exploration of various research techniques; characteristics of qualitative and quantitative studies. Offered every semester.

### FTT 358 FASHION FORECASTING

3, 2/2; WIIF

Prerequisite: Prerequisite: FTT 110, FTT 208 or permission of instructor. Study of designers' work; consumer segmentation and adoption process; analysis of current trends in apparel in order to forecast for specific markets; story board presentation. Hands-on experience with off-the-shelf software programs used in fashion industry for concept/trend board development and forecasting presentation. Offered every fall & spring semester.

### FTT 359 VISUAL MERCHANDISING

3, 3/0

Prerequisites: FTT 250 or Instructor's permission. Importance of visual merchandising in the landscape, with an emphasis on the principles and techniques needed to create strong, impactful visual presentations. Topics include a history of window display and its transition to visual merchandising; design and composition; tools and materials used in the field; mannequins and use of props; lighting and signing; installation of presentations; visual merchandising's place in store and corporate hierarchy; store design and planning; computers and visual planning; safety. Offered fall only.

### FTT 365 FASHION DIGITAL RETAILING

3, 3/0

Prerequisites: FTT150 or Instructor permission. The scope and status of fashion digital retailing; advantages and disadvantages compared to traditional retailing; digital retailing infrastructure; strategies used by small and large apparel brands and retailers; digital marketing concepts and practices; ethical, social and political issues; and key trends in fashion digital retailing.

### FTT 389 TOPICS COURSE

1-3, 1/0

Current topics in Fashion and Textile Technology, Upper level. Offered occasionally.

### FTT 410 ADVANCED PRODUCT DEVELOPMENT

3, 3/0

Prerequisite: Prerequisite: FTT 306, FTT 310, or permission of instructor. Advanced apparel production; principles and practices of sourcing raw materials and the costing of finished garments; types of production systems and the sequence of construction operations used to produce selected items of apparel. Offered spring only.

### FTT 412 CAD: APPAREL AND TEXTILE DESIGN FOR INDUSTRY

3, 2/2

Prerequisite: FTT 206, FTT 208, or permission of instructor. Advanced techniques for off-the-shelf design software; development of basic understanding and design skills on an industrial print pattern design system; market research relative to textile/apparel coordinate product development; advanced textile/apparel coordinate product development; advanced apparel/textile design portfolio development for professional product presentation. Offered fall only.

### FTT 413 CAD: WEAVE FOR INDUSTRY

3, 2/2

Prerequisite: FTT 206, FTT 208, or permission of instructor. Transition of designing woven designs on paper to industrial design software; develop colorways for repeat designs on 8-24 harness looms; designs are applied to end products for merchandising collections targeting specific markets; advanced portfolio-quality presentations. Offered spring only.

### FTT 450 GLOBAL ISSUES IN FASHION AND TEXTILE INDUSTRY

3, 3/0; CT14, IM14, WIIF

Prerequisites: FTT 110, FTT 206, FTT 306, FTT 310 or permission of instructor. Integration of tracks in fashion textile technology. Overview of global issues facing the textile and apparel industry. Differing methods of organization and their inherent structural characteristics; national and international scope of the industry related to textiles, merchandising, and apparel manufacturing companies. Discussion of contemporary issues in American textile and apparel industry, including governmental controls, global trade policies, and labor issues. Offered every semester.

### FTT 451 SENIOR PROJECT

3, 3/0

Prerequisites: FTT 308 and instructor permission. Fashion students must have completed: 1) up to and including all FTT 300 level core courses, and 2) all their 300 level required courses for their respective areas of concentration-apparel design and product development. Offered spring only.

## FTT 452 FASHION SHOW PRODUCTION

3, 2/2

Prerequisite: Upper-division status or permission of instructor. Planning and production of a fashion-promotion event. Utilization of fashion skills to participate in individual and group activities leading to the presentation of a major fashion show. Offered spring only.

## FTT 455 ISSUES IN MERCHANDISING AND FASHION RETAILING

3, 3/0

Prerequisites: FTT 250. Theory, principles and practice of apparel merchandising to both the brick and mortar and digital platform in the retail sector; business models; retailing structures; retailing strategies; responsibilities at management level; current trends; case-study analysis. Offered every semester.

## FTT 461 SENIOR SEMINAR IN FASHION PRODUCT DEVELOPMENT

3, 2/4

Prerequisites: FTT 310 and FTT 326 or instructor permission. Capstone experience for Product Development students which requires the integration of design, production and marketing of a fashion related product. The class will utilize a team approach and emphasize decision-making skills. Offered spring only.

## FTT 475 FASHION MANAGEMENT SEMINAR

3, 3/0

Prerequisites: FTT 350, FTT 455 or Instructor permission. Capstone course in fashion merchandising focusing on technological advancements in and out of the fashion industry, their impact on the fashion business and consumer behavior, current fashion management practices, trends and issues in fashion business practices; Analysis on contemporary issues in fashion management by using case study and content analysis. Offered every semester.

## FTT 488 INTERNSHIP/FIELD EXPERIENCE

1-6, 0/0

Prerequisites: Upper-division status and permission of instructor. Provides an opportunity to integrate academic knowledge in guided and supervised field experiences (experiential learning) with institutions, businesses and educational organizations, social and/or government agencies in area of interest to students as part of their degree program. Approval for experiential learning situations must be obtained from either the student's adviser or the department chair within which the student is a major, the supervising faculty member, and the chair of the department within which the credit will be given. Internship includes structured, supervised field participation, meetings with instructor for response to experiences, and written or other assignments. Students must have at least a 2.5 GPA and background within the area of interest to be considered for this experience. May be taken for a maximum of 6 credits. Offered every semester.

## FTT 495 SPECIAL PROJECT

1-3, 0/0

Offered occasionally.

## FTT 497 WORKSHOP

1-3, 0/0

Offered occasionally.

## FTT 499 INDEPENDENT STUDY

3-12, 0/0

Offered occasionally.

# Finance (FIN)

## FIN 110 PERSONAL FINANCE

3, 3/0

Prerequisite: Successful completion of Mathematics and Quantitative Reasoning general education requirement. Basics of personal and household finance. Saving, debt reduction, home and automobile financing, retirement planning, investment, and insurance. Offered alternate years.

## FIN 189 TOPICS COURSE

1-3, 1/0

Current topics in Finance. Offered occasionally.

## FIN 314 CORPORATION FINANCE

3, 3/0

Prerequisites: ECO 201, or ECO 202 and BUS 312. Introduction to analytical techniques and terminology of corporate financial management. Includes the financial environment, yield-curve analysis, ratio analysis, the DuPont system, pro-forma balance sheets and income statements, the Capital Asset Pricing Model, the intrinsic value of stocks and bonds, the time value of money, capital budgeting, and working capital management. Offered every semester.

## FIN 345 ESTATE PLANNING

3, 3/0

Prerequisite: Upper-division status. Provides financial security during retirement years and facilitates the intended and orderly disposition of property upon disability or death. Addresses concepts and techniques of lifetime financial planning that may lead to increases in one's estate and the conservation of existing assets. Includes a critical evaluation of traditional planning techniques and analysis of major advanced methods, including various living trusts, irrevocable life insurance trusts, charitable remainder trusts, and family-limited partnerships. Offered fall only.

## FIN 370 TECHNICAL ANALYSIS OF FINANCIAL MARKETS

3, 3/0

Prerequisites: ECO 202 or ECO 201 or ECO 101. Study of the market action of financial products such as securities, bonds, futures, and derivatives through the use of charts and figures. Effects of business, economic, and social realities and perceptions on price in financial markets. Market models and theory and the practices and instruments of market players. Technical analysis as a forecasting tool of both market and economic trends in various time frames. Offered fall only.

## FIN 389 TOPICS COURSE

1-3, 1/0

Current advanced topics in Finance. Offered occasionally.

## FIN 400 INTERNATIONAL FINANCE

3, 3/0

Prerequisites: ECO 201 and ECO 202 and FIN 314. Basic theories in international finance and applications, including analysis of exchange-rate markets, international capital markets, multinational capital budgeting, cash management, and international banking. Provides a strong background in international financial markets and international financial policy. Offered fall only.

## FIN 414 INVESTMENT MANAGEMENT

3, 3/0

Prerequisite: FIN 314. Operating and efficiency characteristics of security markets. The application of institutional, technical, and theoretical approaches to security analysis and evaluation of investment portfolios. Offered spring only.

## FIN 415 CASES IN CORPORATION FINANCE

3, 3/0

Prerequisite: FIN 314; ECO 307 recommended. Application of the case approach to problems in business finance. Includes working capital financing, term borrowing, capital budgeting, and mergers and acquisitions. Offered occasionally.

## FIN 416 ADVANCED CORPORATION FINANCE

3, 3/0

Prerequisites: FIN 314. Advanced study of the practice and theory of corporation finance, focusing on topics not covered in introductory corporation finance. Includes advanced debt policy, options, leasing, mergers, international financial management, and pension plans. Offered occasionally.

## FIN 417 DERIVATIVE SECURITIES

3, 3/0

Prerequisite: FIN 314. How modern securities are created from their basic components. Includes circus swaps, artificial Treasury bills, artificial cash, synthetic puts, and portfolio insurance products. Offered spring only.

## FIN 418 BOND MARKETS

3, 3/0

Prerequisite: FIN 314. Introduction to bond management. Includes bond pricing, yield measurements, return measurements, duration, convexity, Treasury securities, agency securities, corporate debt, municipal bonds, the term structure of interest rates, mortgage loans, pass-through securities, CMOs, return characteristics of derivative products, and bond hedging using options and futures. Offered fall only.

## FIN 419 MERGERS AND ACQUISITIONS

3, 3/0

Prerequisites: FIN 314. Identification of firm valuation through mergers and acquisitions; drivers of successful and unsuccessful corporate restructurings; design and evaluation of structured transactions. Strategic planning, investment decisions, and other factors underlying mergers - deal tactics, law, accounting and taxation. Capital market reactions to control transactions; defensive measures against takeover bids. Offered spring only.

## FIN 425 BASIC RESEARCH METHODS IN ECONOMICS

3, 3/0

Prerequisites: ECO 305 or instructor permission. An elective course for economics and related majors designed to introduce students to the basic methods and problems in applied economic research. Emphasis is placed on organizing research projects, finding sources of data, using the computer to solve specific research problems, and writing research reports. Offered occasionally.

## FIN 499 INDEPENDENT STUDY

3-12, 0/0

# Fine Arts (FAR)

## FAR 100 INTRODUCTION TO FINE ARTS

3, 1/5; AR14

The critical basis of procedures and concepts in the fine arts. Introductory problems in studio performance. Topics include artistic purposes, process and content; various media used by artists; the fundamental formal elements and principles of visual art. Lecture and studio experience. Offered annually. Equivalent Course: AAD 100

## FAR 101 DRAWING I

3, 2/4; AR14

Fundamentals of drawing based primarily on the study and representation of objects and natural forms; problems of analysis, composition and structure in various media; emphasis on creativity and concept development. The course will involve both lecture and studio experiences. Offered every semester.

Equivalent Course: AAD 101

## FAR 102 DRAWING II

3, 1/5

Prerequisite: FAR 101. Drawing the nude using various media with an emphasis on proportion, anatomy, and pictorial structure. Lecture and studio experience. Offered every semester.

## FAR 103 MODELING

3, 1/5

Modeling as an introductory experience in the exploration of three-dimensional form. Development of perceptual and analytical attitudes. Lectures and modeled work dealing with the human figure. Offered every semester.

Equivalent Course: FAR 203

## FAR 104 THEMES AND ISSUES IN THE CONTEMPORARY ARTS

3, 3/0

Introduction to important figures, movements, and concepts in recent art, architecture, and design. Develops students' abilities to analyze works of art and to think critically about the role of art and the artist/designer in society. Offered every semester.

Equivalent Course: AAD 150

## FAR 105 ART APPRECIATION

3, 3/0

Survey of the world of art; exploration of the purposes and content, the elements and principles and various media used by artists.

## FAR 189 TOPICS COURSE

3-6, 3/0

Offered every semester.

## FAR 203 MODELING

3, 1/5

Modeling as an introductory experience in the exploration of three-dimensional form. Development of perceptual and analytical attitudes. Lectures and modeled work dealing with the human figure. Offered every semester.

Equivalent Course: FAR 103

## FAR 210 INTRODUCTORY PAINTING

3, 1/5

Prerequisite: FAR 101. Introduction to the methods, techniques, standards, and values of painting. Exploration of color, form, and compositional problems. Lecture and studio experiences. Offered every semester.

### FAR 220 INTRODUCTORY PHOTOGRAPHY

3, 1/5

Fundamentals of 35mm camera craft, black-and-white film developing, exposure metering, print finishing and presentation. Introduction to the use of Photoshop, Mac computer, film scanner, and ink jet printer for digital imaging. Lectures, darkroom and fieldwork. Note: 35mm camera with built-in exposure meter and manual mode capability required. Offered every semester.

### FAR 230 INTRODUCTORY PRINTMAKING

3, 1/5

Prerequisite: FAR 101. Introduction to printmaking and its basic processes and techniques, involving demonstrations, lectures, and studio experiences in one or more areas such as intaglio, lithography, and relief. Offered every semester.

### FAR 240 INTRODUCTORY SCULPTURE

3, 1/5

Prerequisite: FAR 101. The fundamentals of sculptural form. Additive, subtractive, and constructive approaches to sculpture through lecture and studio experiences. Offered every semester.

### FAR 250 ART HISTORY I

3, 3/0; AR14

World history of painting, sculpture, architecture, and related arts from the Paleolithic period to the end of the medieval period. Offered every semester.

Equivalent Course: AAD 251

### FAR 251 ART HISTORY II

3, 3/0; AR14

World history of painting, sculpture, architecture, and related arts from the thirteenth to the twentieth centuries. Offered every semester.

Equivalent Course: AAD 252

### FAR 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### FAR 300 DRAWING III

3, 1/5

Prerequisite: FAR 102. Continuation of FAR 102, with emphasis on the human figure and its relationship to an environment and pictorial structure. Lecture and studio experience. Course may be repeated twice. Offered every semester.

### FAR 311 INTERMEDIATE PAINTING I

3, 1/5

Prerequisite: FAR 210. Continuation of FAR 210, working toward a greater awareness of a personal statement. Lecture and studio experience. Offered every semester.

### FAR 312 INTERMEDIATE PAINTING II

3, 1/5

Prerequisite: FAR 311. Continuation of FAR 210 and FAR 311, allowing opportunity for more thorough fundamental awareness at a more intense concentration. Lecture and studio experience. Offered every semester.

### FAR 313 ADVANCED PAINTING

3-9, 1/5

Prerequisite: FAR 312. Advanced painting, with media, style, and content based on individual needs. Concentration on individually selected areas of painting. Lecture and studio experience. Course may be repeated three times. Offered every semester.

### FAR 316 PAINTING IN SIENA

3, 1/5

Prerequisite: FAR 210 (for art credit); no prerequisite for non-art credit. Upper-level painting course, taught in Siena, Italy. Students work at their level of experience, in the materials and techniques available in Siena. Offered every semester.

### FAR 321 INTERMEDIATE PHOTOGRAPHY I

3, 1/5

Prerequisite: FAR 220. An intermediate course in photography emphasizing the making of creative images. Intermediate 35mm camera technique and the use of on-camera electronic flash are taught. The basic Zone system is taught to improve exposure metering skills, to introduce controls for monitoring the development of film, and to familiarize students with contrast curves used in Photoshop. Includes lectures, equipment demonstrations, computer instruction, and fieldwork. Note: 35mm camera with built-in exposure meter, electronic flash, and tripod required. Offered every semester.

### FAR 322 INTERMEDIATE PHOTOGRAPHY II

3, 1/5

Prerequisite: FAR 321. Intermediate use of computer, Photoshop, film scanning, ink jet printing, and color management to make creative pictures. Builds upon intermediate skills and introduces digital camera use for computer-based imagemaking in photography. Introduces large format ink jet printing. Includes lectures, equipment demonstrations, and fieldwork. Note: Digital camera (5 megapixel or better), 35mm camera, electronic flash, and tripod required. Offered every semester.

### FAR 323 ADVANCED PHOTOGRAPHY

3-9, 1/5

Prerequisite: FAR 321. Devoted to creative work in photography and its integration with digital technology. Advanced camera skills are taught using medium-format and digital cameras. Advanced film exposure and lighting techniques are taught, as well as basic use of Illustrator, Painter, and Poser software. A medium format camera (120/220 film size), tripod, hand-held exposure meter, on-camera and portable studio flash are required. An internship taken concurrently with the last semester of Advanced Photography is encouraged. Course may be repeated up to three times. Offered every semester.

### FAR 325 HISTORY OF PHOTOGRAPHY

3, 3/0; CT14, IM14, WIIF

The invention and development of photography from the early-nineteenth century to the present. Photography as art, science, communication, and influence upon social patterns and customs. Offered alternate years.

### FAR 328 STUDIO PHOTOGRAPHY

3, 1/5

Prerequisite: FAR 220. Introduction to current studio practices used to produce still photographs for commercial and other uses. Medium-format camera, view camera, and studio-lighting techniques. Emphasis on directed and fabricated photographic images. Professional-quality camera, hand-held light meter, and tripod required. Offered occasionally.

### FAR 331 INTERMEDIATE PRINTMAKING I

3, 1/5

Prerequisite: FAR 230. Continuation of FAR 230. Emphasis on personal expression and creative possibilities. Includes lecture, demonstrations, and studio experience. Offered every semester.

### FAR 332 INTERMEDIATE PRINTMAKING II

3, 1/5

Prerequisite: FAR 331. Continued exploration of printmaking with emphasis on personal expression and creative possibilities. Includes lecture, demonstrations, and studio experience. Offered every semester.

### FAR 333 ADVANCED PRINTMAKING

3-9, 1/5

Prerequisites: FAR 331 and FAR 332. Advanced printmaking. Media determined by the student in consultation with the instructor. Includes lecture and studio experiences. May be repeated three times. Offered every semester.

### FAR 335 PAPERMAKING

3-9, 1/5

Prerequisite: One studio course in fine arts or design. The theory and practice of handmade papermaking involving demonstrations, lectures, and studio experience. Required for B.F.A. printmaking majors. Offered every semester.

### FAR 341 INTERMEDIATE SCULPTURE I

3, 1/5

Prerequisite: FAR 240. Further exploration of sculptural form with more complete study of numerous sculptural approaches and techniques. Practice in planning and executing sculpture projects. Offered every semester.

### FAR 342 INTERMEDIATE SCULPTURE II

3, 1/5

Prerequisite: FAR 341. Continuation of FAR 341 with further emphasis on exploration of variations within each technique and approach. Development of personal modes of expression. Offered every semester.

### FAR 343 ADVANCED SCULPTURE

1-9, 1/5

Prerequisite: FAR 341 and FAR 342 or any 300-level art or design studio course with instructor permission. Concentration on individually selected areas of development in sculpture based on personal interest, needs, and experience. May be repeated three times. Offered every semester.

### FAR 345 FIGURE MODELING

3, 1/5

Prerequisite: FAR 240. Figure modeling as a basic sculptural discipline. Portrayal and interpretation of the human form. Anatomy lectures and work with live models. Offered alternate years.

### FAR 346 SCULPTURE IN SIENA

3, 1/5

Prerequisite: FAR 240 (for art credit); no prerequisite for non-art credit. Upper-level course in sculpture taught in Siena, Italy. Students work at their level of experience, in the materials and techniques available in Siena. Offered every semester.

### FAR 351 ART OF THE ANCIENT WORLD

3, 3/0; CT14, IM14, WIIF

Prerequisite: Junior status or permission of instructor. Art of the Ancient World from earliest prehistory through the Roman era. Styles and regional variations in Greek, Near Eastern and Egyptian art within their cultural contexts. The Roman imprint on the civilizations of the Mediterranean and Near East and its multicultural effects.

### FAR 352 ART AND CULTURE OF ISLAM

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. The art of Islam in its cultural context, beginning in the seventh century A.D. and terminating in the twentieth century A.D. The development of Islamic art in relation to the Islamic system of life and belief and regional variations in Islamic art, both sacred and secular are explored throughout the eastern Mediterranean, the Medieval West and the Near East. Offered alternate years.

### FAR 353 ART AND CULTURE OF EGYPT AND THE NEAR EAST

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. The ancient art and culture of Egypt and the Near East from their beginnings in the Neolithic period circa ninth millennium B.C. through the Roman conquest. The cultural and environmental context of art in Egypt and the Near East with emphasis on the development of civilization in the fourth millennium B.C., on craft specialization, and on ethnic diversity resulting in regional styles in art. Offered alternate years.

### FAR 354 ART AND CULTURE OF GREECE

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. The history of art in the cultural and environmental context of Greece from its beginnings in the Neolithic period, ca. 6000 B.C. through the Roman Conquest (first century B.C.). The architecture, sculpture, painting, and minor arts of Greece studied in their cultural context. Offered alternated years.

### FAR 355 ART AND CULTURE OF ROME

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. The history of Roman art during its two main periods, the Republican period and the Roman Empire (circa third century B.C. through fourth century A.D.). Consideration of early influences on the art and culture of Latium, including the art of the Near East and culture of the Villanovans and Etruscans, and the art of Archaic, Classical, and Hellenistic Greece. Offered alternate years.

### FAR 356 EARLY MEDIEVAL ART

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. The art and culture of Europe, Byzantium, and the Near East in the context of the development of Christianity from its early roots through the early twelfth century A.D. Regional forms in art, including sacred and secular building construction, manuscript illumination, metalworking, enameling, and sculpture are examined with emphasis on historical context and religious and philosophical meaning. Offered alternated years.

### FAR 357 LATE MEDIEVAL ART

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. Architecture, sculpture, painting and the decorative arts of the period from ca. 1100 A.D. through the end of the fourteenth century A.D. The new aesthetic of Gothic in the context of philosophical and theological developments in Western Europe, the Crusades, and the growth of cities. Offered alternate years.

### FAR 358 ITALIAN RENAISSANCE ART, 1200-1480

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. Introduction to stylistic, technical and iconographical developments in Italian art and architecture, leading up to and including the Renaissance period, 1200-1400. Examination of the aspirations, achievements and disappointments of major artists within their historical, social and cultural contexts. Offered alternate years.

### FAR 359 HIGH RENAISSANCE AND MANNERISM

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. Introduction to stylistic changes and developments in Italian High Renaissance and Mannerist art. Examination of the aspirations, achievements and disappointments of major artists within their historical, social and cultural contexts. Offered alternate years.

### FAR 361 ITALIAN BAROQUE ART

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. Architecture, sculpture, and painting in Italy during the seventeenth and eighteenth centuries. Emphasis on key centers such as Rome, Venice, Turin, and Naples. Offered alternate years.

### FAR 362 NINETEENTH-CENTURY ART

3, 3/0

Prerequisites: FAR 250 and FAR 251. Architecture from the neoclassicism of the Adam brothers to the skyscraper. Painting from David to Cézanne in France, the Nazarenes, and Pre-Raphaelites in Germany and England. Sculpture from Houdon and Canova to Rodin in relationship to the social, political, economic, and intellectual climate of the times. Offered fall only.

### FAR 363 TWENTIETH-CENTURY ART HISTORY

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. Major trends and works of the twentieth century. Emphasis on historical, artistic, judgmental, and cultural meanings as they reflect twentieth-century and past civilizations. Includes painting, sculpture, architecture, and other areas. Offered spring only.

### FAR 364 ART SINCE 1940

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. Introduction to art since 1940 within its historical, social, political, and cultural contexts. Offered alternate years.

### FAR 365 AMERICAN ART I

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. Architecture, painting, and sculpture in the United States from the seventeenth century to World War I. Offered alternate years.

### FAR 366 AFRICAN AMERICAN ART

3, 3/0

Prerequisites: FAR 250 and FAR 251. Survey of African American Art. Examines African American art as well as the relationship of art to politics and the formation of racial/cultural identity. Offered alternate years.  
Equivalent Course: AAS 366

### FAR 367 BAROQUE OF NORTHERN EUROPE

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251. Architecture, sculpture, and painting of the seventeenth and eighteenth centuries in Northern Europe. Emphasis on development in France, Holland, and Germany. Offered alternate years.

### FAR 369 ART OF THE MIDDLE AGES

3, 3/0; CT14, IM14, WIIF

Prerequisite: Junior status or permission of instructor. Art of the Middle Ages from the Early Christian period through the end of the Gothic period (ca. third century A.D. - fourteenth century A.D.). Reading, analysis, lecture and discussion of the styles, cultural contexts and regional variations in the medieval art of Europe, the Mediterranean, and the Near East. Offered alternate years.

### FAR 371 ART CRITICISM AND THEORY

3, 3/0; CT14, IM14, WIIF

Prerequisite: Junior status or permission of instructor. Modern and Post-Modern art criticism and theory in a historical context; reading, analysis, lecture, and discussion of selected texts pertaining to Formalism, Iconography and Semiotics, Modernism, Post-Modernism, Media and Communication, Gender, the "Other" and Institutional Critique. Offered alternate years.

### FAR 372 MASTERWORKS OF ARCHITECTURE

3, 0/0; CT14, IM14, WIIF

Introduction to masterworks of architecture, emphasizing architecture as a living organism. Buildings selected from various periods and cultures. Styles from early civilizations to the present day, including places of worship and interment, public and commercial structures, and private residences. Offered alternate years.

### FAR 373 VENETIAN ART, CULTURE AND ENVIRONMENT

3, 3/0

Prerequisites: CWP 102 and FAR 251 or instructor permission. The history of Venetian architecture, sculpture, and painting considered within historical, geographical and cultural contexts from the fourteenth through the eighteenth century. Students will undertake original research and will carry out individual projects. Offered alternate years.

### FAR 374 THE HISTORY AND CULTURE OF ART COLLECTING AND THE PUBLIC MUSEUM

3, 3/0

Prerequisites: FAR 250 and FAR 251. Study of the history and theory of art collecting in Europe and America within historical, cultural and intellectual contexts. Examination of specific collectors and collections, cultural practices associated with collecting, methods of displaying art and approaches to viewing art. Offered alternate years.

### FAR 375 INTRODUCTION TO ASIAN ART

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251; upper-division status. The principle concepts in the art of China, Japan, and India. The relevance of the philosophies of Hinduism, Buddhism, Jainism, Zen tradition, Taoism, and Confucianism to the development of Asian art. Brief histories of civilizations as frameworks for understanding aesthetic and philosophical Asian concepts. Offered alternate years.

### FAR 376 INDIAN ART

3, 3/0; CT14, IM14, WIIF

Prerequisites: FAR 250 and FAR 251; upper-division status. Introduction to the principal thoughts and concepts of the art of India and its relevance to the philosophies of Hinduism, Buddhism, and Jainism. Includes comparisons with Western art and a brief history of Indian civilization as a framework for the understanding of Indian aesthetic and philosophical concepts as presented in works of art. Offered alternate years.

### FAR 377 ART OF CHINA AND JAPAN

3, 3/0

Prerequisite: FAR 250 and FAR 251; upper-division status. Introduction to the principal thoughts and concepts of Chinese and Japanese art and its relevance to the philosophies of Buddhism, Zen tradition, Taoism, and Confucianism. Includes comparisons with Western art and brief histories of Eastern civilizations as frameworks for the understanding of Eastern aesthetic and philosophical concepts as presented in works of art.

### FAR 380 ART OF AFRICA

3, 3/0; CT14, IM14, WIIF

The history of art in Africa from prehistory through the twentieth century. Arts from diverse regions of the continent are examined in their cultural context, with an emphasis on local and regional variations in style and iconography in the domestic, sacred, and royal arts. African responses to the development of slavery, imperialism, and other external stimuli are considered in relation to the use and trade of raw materials and the creation of new symbolic forms. Offered alternate years.

Equivalent Course: AAS 380

### FAR 382 MODERN AND CONTEMPORARY RUSSIAN ART

3, 3/0

Prerequisites: FAR 250 and FAR 251. Survey of Modern and Contemporary Art in Russia. Examines modern art before the Soviet Revolution, the art and culture of the Soviet Union, and of the Post-Socialist era. Offered alternate years.

### FAR 385 NORTHERN RENAISSANCE ART

3, 3/0

Prerequisites: FAR 250 and 251. Survey of artistic developments in Flanders, Holland and Germanic Provinces between 1380 and 1580 within historical, political, religious and cultural contexts. Offered alternate years.

### FAR 386 ART AND THE EARLY MODERN GLOBAL ENCOUNTER

3, 3/0

Prerequisites: CWP 102 or equivalent and FAR 251. Survey of Baroque art and architecture in Europe, Latin America, China, Japan and India between 1550 and 1805 within historical, political, religious and cultural contexts.

### FAR 389 TOPICS COURSE

3, 0/0

Offered alternate years.

### FAR 400 DRAWING IV

3, 1/5

Prerequisite: FAR 300. Advanced drawing with media and content based on individual needs. Concentration on individually selected area of development in drawing. Use of model. Lecture and studio experiences. Course may be repeated twice. Offered alternate years.

### FAR 410 SENIOR STUDIO IN PAINTING

6, 2/10

Prerequisites: FAR 313, painting major, senior status. A 6 credit-hour concentration of studio work. Students plan and execute a series of problems and projects in consultation with major adviser. Offered every semester.

### FAR 420 SENIOR STUDIO IN PHOTOGRAPHY

6, 2/10

Prerequisites: FAR 323, photography major, senior status. A 6 credit-hour concentration of studio work by the senior major in photography. Students outline, plan, and execute a complex and related series of pictures to be made during the semester, which result in a skillful, intelligent, and coherent body of work. Offered every semester.

### FAR 430 SENIOR STUDIO IN PRINTMAKING

6, 2/10

Prerequisites: FAR 333, printmaking major, senior status. A 6 credit-hour concentration of studio work. Students plan and execute a series of problems and projects in consultation with major adviser. Offered every semester.

### FAR 440 SENIOR STUDIO IN SCULPTURE

6, 2/10

Prerequisites: FAR 343, sculpture major, senior status. A 6-credit-hour concentration of studio work. Students plan and execute a series of problems and projects in consultation with major adviser. Offered every semester.

### FAR 469 ART AND ARCHITECTURE IN SIENA

3, 0/0; CT14, IM14, WIIF

Firsthand study of Gothic and Renaissance art in Siena, Italy. Includes classroom lectures and visits to the city's major monuments and collections. Offered every semester.

### FAR 470 SENIOR SEMINAR IN FINE ARTS

3, 3/0

Prerequisites: FAR 313, FAR 323, FAR 333, or FAR 343; fine arts major. Final evaluative process regarded as a culminating experience in the program. Discussions and lectures in major areas. Theory and significance of selected problems. Critical analysis of the student's work resulting in the preparation of a professional portfolio. Offered every semester.

### FAR 471 SENIOR SEMINAR IN ART HISTORY

3, 3/0

Prerequisites: Junior or Senior level art history major; or permission of instructor. Readings, discussions, and research on selected problems in the history of art from antiquity to the twentieth century. Emphasis on gathering and interpreting source material.

#### FAR 488 INTERNSHIP

1-15, 0/0

Prerequisites: Permission of faculty supervisor; minimum cumulative GPA of 2.0; background of courses or experiences within area of interest; permission of student adviser or major department chair and supervising faculty member and chair of credit-granting department. Guided, supervised field experiences (experiential learning). Offered every semester.

#### FAR 495 SPECIAL PROJECT

1-3, 0/0

Offered occasionally.

#### FAR 497 WORKSHOP

3, 0/0

Offered occasionally.

#### FAR 499 INDEPENDENT STUDY

3-12, 0/0

Offered every semester.

## Foreign Language Education (FLE)

#### FLE 200 FIELD EXPERIENCE IN FOREIGN LANGUAGE EDUCATION

3, 0/0

Prerequisites: Sophomore status; completion of 302 in language of specialization; minimum GPA of 2.5 in language of specialization or GOOD on MLA scale; proficiency in English (FS1-3); consent of modern and classical languages education coordinator. Ninety hours in a middle, junior high, or senior high school in observation and participation of various types. Conducted by school and college staff. Offered occasionally.

Equivalent Course: SED 200

#### FLE 201 INTRODUCTION TO TECHNOLOGY IN FOREIGN LANGUAGE EDUCATION

3, 3/0

Prerequisite: Official enrollment in French or Spanish foreign language education program. Introduction to the uses and limitations of technology in language instruction with particular emphasis on the principled use of computer-assisted instruction, situated within standards- and research-based language pedagogy. Offered occasionally.

#### FLE 240 INTRODUCTION TO LINGUISTICS

3, 3/0

A general introduction to the study of language, including syntax, morphology, phonetics, phonology, semantics, sociolinguistics, discourse analysis, and language change. Offered fall only.

#### FLE 300 INTRODUCTION TO THE FOREIGN LANGUAGE CLASSROOM

3, 3/0; CT14, IM14

Prerequisites: FRE/SPA 302; consent of foreign language education coordinator. Introduction to the research and standards that inform professional foreign language teaching. Thirty-five clock hours in a middle, high, or senior high school in a variety of field-based tasks. Conducted by school and college staff.

#### FLE 316 TEACHING READING IN THE SECOND LANGUAGE IN MIDDLE SCHOOLS

3, 3/0

Prerequisites: FRE 301 or SPA 301 or equivalent, and one course in French or Spanish literature. Strategies and techniques for teaching reading in the second-language classroom. Students read in the language they are going to teach. Required for all students entering foreign language education programs. Offered fall only.

Equivalent Course: SED 316

#### FLE 340 SECOND LANGUAGE ACQUISITION AND LITERACY

3, 3/0

Prerequisites: Consent of foreign language education coordinator. Introduction to the main components that underpin second-language acquisition and literacy theory, including inter-language systems and sociocultural, psychological, and personality factors. Classroom observations in a middle, high, or senior high school. Conducted by school and college staff. Required for all B.S. French and Spanish Education majors (BS-AH-FRS/SPS) and Foreign Language Education Postbaccalaureate Teaching Certification (PBC-AH-FRS/SPS) students. Offered spring only.

#### FLE 401 TEACHING FOREIGN LANGUAGE IN MIDDLE AND HIGH SCHOOLS

3, 3/0; CT14, IM14, WIIF

Prerequisites or corequisites: Completion of the ACTFL Oral Proficiency Interview. FLE 300, EDF 303, and EDF 403. Exploration of the research and standards that inform professional foreign language teaching. Students in modern and classical languages teacher certification programs should take this course immediately before FLE 407 and FLE 408 (student teaching). Conducted by school and college staff. Offered every semester.

#### FLE 403 FOUNDATIONS OF FOREIGN AND SECOND LANGUAGE EDUCATION

3, 3/0

Prerequisites: FLE 300. May be taken concurrently with instructor permission. Introduction to the historical, psychological, social and philosophical foundations of foreign and second language instruction. Offered occasionally.

#### FLE 405 METHODS AND MATERIALS FOR TEACHING FOREIGN LANGUAGES IN HIGH SCHOOLS

3, 3/0

Prerequisites: EDF 303, EDF 403, and consent of modern and classical languages education coordinator. Prerequisite or corequisite: FLE 200. Introduction to the elements of a foreign language curriculum: selecting, organizing, and presenting material; designing classroom activities; evaluating student progress; teacher-pupil relationships. Students in modern and classical languages teacher certification programs should take this course immediately before FLE 407 and FLE 408. Offered occasionally.



### FLE 406 TECHNIQUES FOR TEACHING AND EVALUATING FOREIGN LANGUAGES IN MIDDLE SCHOOLS

3, 3/0

Prerequisites: EDF 303, EDF 403, and consent of modern and classical languages education coordinator. Prerequisite or corequisite: FLE 200. Development of skills in teaching and testing foreign languages, with special emphasis on applying a communicative syllabus to middle and secondary school language programs. Offered occasionally.

### FLE 407 STUDENT TEACHING OF FOREIGN LANGUAGES IN THE MIDDLE/JUNIOR HIGH SCHOOL

6, 0/0

Prerequisites: Minimum GPA of 2.5 for all requirements in language of specialization and in professional education; minimum grade of C in FLE 405 and FLE 406; consent of modern and classical languages education coordinator. Teaching under supervision in a middle school or junior high school five days a week, with additional participation in school program. Evaluation by college and school personnel. Offered every semester.

### FLE 408 STUDENT TEACHING OF FOREIGN LANGUAGES IN THE HIGH SCHOOL

6, 0/0

Prerequisites: Minimum GPA of 2.5 for all requirements in language of specialization and in professional education; minimum grade of C in FLE 405 and FLE 406; consent of modern and classical languages education coordinator. Teaching under supervision in a senior high school five days a week, with additional participation in school program. Evaluation by college and school personnel. Offered every semester.

### FLE 497 WORKSHOP

3, 0/0

Offered occasionally.

### FLE 499 INDEPENDENT STUDY

1-12, 0/0

Offered every semester.

## Forensic Science (FOR)

### FOR 122 SCIENTIFIC CRIMINAL EVIDENCE ANALYSIS

3, 3/0

Scientific techniques that have been adapted and applied to the detection and investigation of crimes. Collection techniques, analytical processes, and value of scientific evidence from the point of view of forensic scientists. Different disciplines, specialties, and careers available in forensic science. Offered spring only.

### FOR 189 TOPIC COURSE

1-3, 1/0

Current topics in Forensic Science. Offered occasionally.

### FOR 295 INTRODUCTORY RESEARCH IN FORENSIC SCIENCE

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### FOR 312 CHEMISTRY AND CRIMINALISTICS

4, 3/3

Prerequisites: FOR 122, MAT 311 and CHE 201. Chemistry as an investigative aid in the process of criminal justice. Basic chemical, physical, and microscopic techniques used in criminal investigations. Relevant laws and legal issues that impact on scientific evidence. Professional practice and ethics in the field of forensic science. The overall function of the criminalist from the gathering of evidence to the final presentation of expert testimony. Offered fall only.

### FOR 389 TOPIC COURSE

1-3, 1/0

Current advanced topics in Forensic Science. Offered occasionally.

### FOR 410 PROFESSIONAL PRACTICES IN FORENSIC SCIENCE

3, 3/0

Prerequisite: FOR 312. Examination of aspects of forensic lab practice required for a successful career as a forensic scientist. Introduction to the working environment of forensic laboratories; management's expectations regarding professional and ethical behavior; time management; workflow processes; court testimony. Offered every other spring.

### FOR 412 INTERNSHIP IN CRIMINALISTICS

3, 0/0

Prerequisites: FOR 312, CHE 403, permission of instructor, and senior status. Field experience in a forensic laboratory involving routine and research work in forensic chemistry. Note: Police laboratories sometimes require background checks and/or drug screens prior to placement. While not required by the college, these can affect students' abilities to complete the program. Offered every semester.

### FOR 414 FORENSIC CHEMISTRY LABORATORY

3, 2/3; WIIF

Prerequisites: FOR 312, CHE 403 and CHE 404; BIO 303 or BIO 350 (or concurrently). Instruction and laboratory experiences in a wide range of forensic chemistry topics, including experiments in DNA for human identification, identification of illicit drugs, determination of blood alcohol, materials analysis, and arson. Students also receive instruction on the practice of presenting scientific evidence in a courtroom setting. Offered spring only.

### FOR 416 CHEMICAL MICROSCOPY

3, 2/3

Prerequisites: FOR 312 and PHY 112. Introductory optical and chemical microscopy for forensic analysis; fundamental theory of microscopy; physical properties of materials; basic topics in optics; operation, varieties, and capabilities of optical and chemical microscopes; applications in analysis of physical features and chemical compositions of trace evidence. Offered spring only.

### FOR 495 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Faculty project adviser permission. Offered every semester.

### FOR 497 FORENSIC MICROCOURSE

1-3, 1/0

Examination of significant disciplinary issues, topics, or practices. Offered occasionally.  
Equivalent Course: CHE 497

## FOR 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisite: Faculty project adviser permission. Offered every semester.

# French (FRE)

## FRE 101 BEGINNING FRENCH I

3, 3/0; GE14

Fundamentals of French with an emphasis on the spoken and written language. Offered every semester.

## FRE 102 BEGINNING FRENCH II

3, 3/0; GE14

Prerequisite: FRE 101. Continuation of FRE 101.

Fundamentals of French with an emphasis on the spoken and written language. Offered every semester.

## FRE 189 TOPIC COURSE

1-3, 0/0

Current topics in French. Offered occasionally.

## FRE 201 INTERMEDIATE FRENCH I

3, 3/0

Prerequisite: FRE102. Taught in French. Speaking, reading, writing, and listening comprehension proficiency skill-building, based on competencies acquired in FRE102.

Exploration of the geography, culture, and society of France and West Africa, including regional cuisine, music, literature, and university life. Offered each semester.

## FRE 202 INTERMEDIATE FRENCH II

3, 3/0

Prerequisite: FRE 201. Continuation of FRE 201. Further development of basic skills with emphasis on reading and writing. Offered every semester.

## FRE 203 WORKPLACE FRENCH I

3, 3/0

Prerequisite: FRE 202. Taught in French. Common written and oral interactions in the French-speaking workplace. Language skills and proficiency practice at the intermediate-low level of the ACTFL (American Council on the Teaching of Foreign Languages) scale. Offered fall only.

## FRE 204 WORKPLACE FRENCH II

3, 3/0

Prerequisite: FRE 202. Taught in French. Common written and oral interactions in the French-speaking workplace. Language skills and proficiency practice targeted toward the intermediate-mid level of the ACTFL (American Council on the Teaching of Foreign Languages) scale. Offered spring only.

## FRE 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

## FRE 301 INTRODUCTION TO FRANCOPHONE CULTURE

3, 3/0; CT14, IM14, WIIF

Prerequisites: FRE 202. Taught in French. Study of the French Language through exploration of Francophone cultures. Oral, written, and reading skill-building practice at the intermediate-mid level of the ACTFL (American Council for the Teaching of Foreign Language) scale. Offered fall only.

## FRE 302 INTRODUCTION TO FRANCOPHONE MEDIA

3, 3/0

Prerequisites: FRE202. Taught in French. Study of the French language through exploration of Francophone cinema and media. Oral, written, and reading skill-building practice at the intermediate-mid level of the ACTFL (American Council for the Teaching of Foreign Language) scale. Offered spring only.

## FRE 305 PHONETICS AND ORTHOGRAPHY

3, 3/0

Prerequisites: FRE 301 and FRE 302. Introduction to French phonetics and applied linguistics. Offered occasionally.

## FRE 306 FRENCH CULTURE: PREHISTORY TO THE RENAISSANCE

3, 3/0

Prerequisite: FRE 301 or FRE 302. Survey of the literature of France from prehistory to the Renaissance and its relationship to French history and culture. Offered spring only, alternate years.

## FRE 307 FRENCH CULTURE: RENAISSANCE TO REVOLUTION

3, 3/0

Prerequisites: FRE 301 and FRE 302. Taught in French. Introduction to key historical, social, cultural & literary figures, works, ideologies, and events in France from 1515 to 1789. Offered fall only, alternate years.

## FRE 308 FRENCH CULTURE: REVOLUTION TO BELLE EPOQUE

3, 3/0

Prerequisites: FRE 302. Taught in French. Introduction to key historical, social, cultural, and literary figures, works, ideologies, and events in France from 1789 to 1890. Offered spring only, alternate years.

## FRE 309 LITERATURE AND CULTURE OF FRANCE IN THE TWENTIETH CENTURY

3, 3/0; CT14, IM14, WIIF

Prerequisite: FRE 301 or FRE 302. Survey of the literature of France in the twentieth century and its relationship to French history and culture. Offered fall only, alternate years.

## FRE 310 ISSUES IN PROFESSIONAL COMMUNICATION

3, 3/0

Prerequisites: FRE 302. Taught in French. Strategies for bicultural, bilingual communication in the workplace. Examination of communication and miscommunication commonly experienced by U.S. nationals in Francophone workplace settings. Oral, written, and reading skill-building practice at the advanced-mid level of the ACTFL (American Council for the Teaching of Foreign Language) scale. Offered fall only.

## FRE 321 ISSUES AND THEMES IN THE FRANCOPHONE WORLD

3, 3/0

Prerequisites: FRE 302 or equivalent; instructor permission. In French. Development and practice of French language skills through exploration of current issues facing the Francophone world. Offered spring only.

## FRE 331 FRENCH LITERATURE IN TRANSLATION

3, 3/0

Selected masterpieces of contemporary French literature in translation. Knowledge of French not required. French majors and minors must obtain department chair and permission of course instructor. Offered occasionally.

Equivalent Course: ENG 331

**FRE 341 FRANCOPHONE LITERATURE IN TRANSLATION**

3, 3/0

Aspects of the Francophone world (French-speaking Europe, North America, Africa, and the Caribbean). Emphasis on historical, political, economic, and social changes resulting from colonial, neocolonial, and antecolonial periods.

French majors and minors must obtain department chair and permission of course instructor. Offered occasionally.

**FRE 389 TOPICS COURSE**

3, 0/0

Current advanced topics in French. Offered occasionally.

**FRE 402 PEDAGOGICAL FRENCH**

3, 3/0

Prerequisites: FRE 301 and FRE 302 or equivalents.

Instruction in classroom use of French and exploration of research in French pedagogy. Prepares candidates for the required American Council on the Teaching of Foreign Languages (ACTFL) Advanced-Low proficiency interview. In French. Offered occasionally.

**FRE 403 NINETEENTH CENTURY FRENCH NOVEL**

3, 0/0

Prerequisite: FRE 307 and FRE 308 or permission of instructor. A study and analysis of major works of the period. Offered occasionally.

**FRE 408 THE CONTEMPORARY FRENCH THEATER**

3, 0/0

Prerequisite: FRE 307 and FRE 308 or permission of instructor. The French theater of the 20th Century. Offered occasionally.

**FRE 410 FRENCH POETRY FROM BAUDELAIRE TO PRESENT**

3, 0/0

Prerequisite: FRE 307, FRE 308, and FRE 309 or permission of the instructor. A study and analysis of French and Francophone poetry selected from major literary periods. May be limited to one historical period. Offered occasionally.

**FRE 412 STUDIES IN THE FRENCH NOVEL**

3, 3/0

Prerequisite: FRE 307, FRE 308, or FRE 309. French and Francophone novels from the Middle Ages to the present. Includes historical introduction to the novel as social phenomenon and introduction to the formal development of the French and Francophone novel. May be limited to one historical period. May be repeated once where content varies. Offered occasionally.

**FRE 415 ADVANCED GRAMMAR AND COMPOSITION**

3, 3/0

Prerequisites: FRE 301 and FRE 302. Advanced topics of French grammar with work in French composition. Offered occasionally.

**FRE 416 ADVANCED CONVERSATION AND COMPOSITION**

3, 3/0

Prerequisites: FRE 301 and FRE 302. Advanced conversation dealing with contemporary French civilization and institutions. Recommended for secondary education majors. Offered occasionally.

**FRE 420 LITERATURE AND SOCIETY OF FRANCOPHONE CANADA: 1700 TO THE PRESENT**

3, 3/0

Prerequisites: One 300-level FRE literature course and instructor permission. Taught in French. Study of the lasting impact of French colonialism on the society, literature, and self-identity of Francophone North America. Offered spring only, alternate years.

**FRE 430 FRENCH RENAISSANCE**

3, 0/0

Prerequisite: FRE 307 and FRE 308 or permission of instructor. Origins and progress of the French literature of the sixteenth century. Offered occasionally.

**FRE 435 FRANCOPHONE AFRICAN LITERATURE IN POST-COLONIAL CONTEXT**

3, 3/0

Prerequisites: One 300-level FRE literature course and instructor permission. Taught in French. Study the effects of colonialism on the society, culture, and self-identity of Francophone Africa. Offered fall only.

**FRE 440 ORIGINS OF MODERN FRANCE**

3, 3/0

Prerequisites: FRE 306 or FRE 307 or FRE 308 or FRE 309, and instructor permission. Taught in French. An examination of the 19th-century intellectual trends, scientific advances, and social welfare initiatives that made France what it is today, as portrayed in the novels of key authors of the period 1850-1890. The industrial Revolution and its impact on daily life. The influence of contemporary developments in germ theory, urban planning, and social welfare reform on the urban renewal campaign of Emperor Napoleon III. Evolutionary theory and its impact on the ideology and novels of key authors of the naturalist school or literature. Offered fall only, alternate years.

**FRE 455 MOLIÈRE'S COMEDIES IN SOCIO-CULTURAL CONTEXT**

3, 3/0

Prerequisites: Instructor permission. Taught in French. Analysis of the life and works of Molière, the milieu for which he wrote, the conventions of 17th-century French drama, the influence of contemporary political rivalries, social conditions, and court practices on his work and career. Offered fall only, alternate years.

**FRE 460 FRANCO-CARIBBEAN LITERATURE, HISTORY & CULTURE**

3, 3/0

Prerequisites: At least one previous upper-level, undergraduate literature course in French. History, social issues, syncretic aspects of the French Caribbean culture in literary context. Characteristic literary themes, conflicts, and symbolism in key works of major Franco-Caribbean authors. Taught in French. Offered spring only, alternate years.

**FRE 495 SPECIAL PROJECT**

1-3, 0/0

**FRE 496 SEMINAR I**

3, 3/0

Prerequisite: Permission of instructor. Topic chosen by instructor. Offered every semester.

**FRE 497 SEMINAR II**

1-3, 3/0

Prerequisite: Permission of instructor. Topic chosen by instructor. Offered every semester.

### FRE 499 INDEPENDENT STUDY

3-12, 0/0

Offered every semester.

## Geography (GEG)

### GEG 101 WORLD NATURAL ENVIRONMENTS

3, 3/0; NS14

Nature of geography; earth-sun relationships; maps and map interpretation; and classification, distribution, and origins of the major elements of the natural environment: weather, climates, soils, natural vegetation, landforms, and developmental processes. Offered every semester.

### GEG 102 HUMAN GEOGRAPHY

3, 3/0; SS14

Introduction to cultural geography through the application of five themes: religion, diffusion, ecology, interaction, and landscape. The distribution of value systems, ethnicity, language, religion, and population as indices of human variety. Cultural impacts of globalization. Offered every semester.

### GEG 120 CAVERN STUDIES

1, 1/0

The development and unique environment of solution caves. Students will explore caves while on a weekend field trip, studying cave development and the formation of depositional features. Other topics include cave climatology, biology, chemistry, and the application of survey/mapping techniques. Offered occasionally.

### GEG 206 GEOGRAPHY OF NEW YORK STATE

3, 3/0

Landforms, regions, climates, and natural resources; distribution of population; location and functions of cities; development of transportation; utilization and conservation of soil, mineral, forest, wildlife, and water resources; industrial development. Offered occasionally.

### GEG 241 METEOROLOGY

3, 3/0; NS14

An introduction to weather, including the makeup of the atmosphere, seasonality, heat and radiation balance, temperature, humidity, and precipitation, atmospheric motion, atmospheric pressure and wind, air masses and fronts, severe weather, meteorological instrumentation, local weather, climate controls, and synoptic forecasting. Includes laboratory modules. Emphasis on the relationship between weather systems, technology, and humans. Offered every semester. Equivalent Course: GES 241

### GEG 295 RESEARCH EXPERIENCE IN GEOGRAPHY

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### GEG 300 WORLD REGIONAL GEOGRAPHY

3, 3/0

National and state geography standards; concept of region; map essentials; physical, cultural, economic, and political geography fundamentals within selected regions. Offered occasionally.

### GEG 303 GLOBAL CLIMATOLOGY

3, 3/0

Prerequisite: GEG 101. Study of the earth's climate through analysis of climatic controls, classification schemes, and feedback cycles. Includes an examination of past climates and global climate change scenarios. Offered occasionally.

### GEG 305 PRINCIPLES OF ECONOMIC GEOGRAPHY

3, 3/0

Prerequisite: One Social Science course. Introduction to the theoretical study of economic geography; location theory; theoretical spatial distribution of economic activities, including agriculture, manufacturing, urban land use, services, and transportation. Offered occasionally.

### GEG 307 CONSERVATION AND ENVIRONMENTAL MANAGEMENT

3, 3/0

Prerequisites: One natural science course. Globalization, recent technological advancement, and effects on resource conservation and environmental management in the face of increased pressure from society. Current resources, globalization of environmental issues and pollution, new technologies and economic impacts. Offered every semester.

### GEG 309 URBAN GEOGRAPHY

3, 3/0; DI14

Prerequisite: One social science course. Internal spatial structure of American metropolitan areas and their relationships. Spatial arrangements of land uses; ethnics, racial and economic composition of the population; dynamics of population growth and change; influence of minorities on cities and suburbs; geographic consequences of poverty and segregation on growth and change; transportation and fiscal problems confronting local governments. Offered every semester.

### GEG 310 URBAN TRANSPORTATION PLANNING

3, 3/0

Prerequisite: GEG 309 or PLN 215. Comparative study of the modes of transportation, transportation planning, and the benefits and effects of transportation. Emphasis on application to urban transportation. The importance of accessibility to the development of a modern metropolitan transportation system. Offered occasionally.

Equivalent Course: PLN 310

### GEG 316 WATERSHED POLLUTION

3, 3/0

Pre-requisites: GEG 101 or GES 101. Important pollutants and toxic chemicals generated by anthropogenic activities and their transport, transformation, and fate within watersheds. Impacts of these pollutants on soil, forest, and aquatic ecosystems using specific case studies. Offered occasionally.

### GEG 325 MAPS AND MAPMAKING USING GIS

3, 3/0

Maps as essential form of communication. Geographic information systems (GIS) tools for creating digital and hardcopy maps. Spatial thinking, concepts, principals and methods of mapmaking; map development and display using technology. Offered every semester.

Equivalent Course: PLN 325

### GEG 345 BAHAMAS FIELD EXPERIENCE

3, 1/4

Prerequisites: Sophomore or higher standing. A 10-day field study of San Salvador, Bahamas. Coral reefs, sand flats, karst landscapes, vegetation, dunes, caves, indigenous peoples, Columbus' landfall, historic sites, island culture. Emphasis on lab and field activities. Offered occasionally.

### GEG 359 ARCTIC GEOGRAPHY FROM AN INUIT PERSPECTIVE

3, 3/0; NW14

Prerequisite: One Social Science course. A study of the physical, political, economic and cultural environments of Arctic regions from an Inuit perspective. Topics focus on interaction between the Arctic environment and its peoples before and after Euro-American contact. Students will also study contemporary issues in today's Arctic. Offered fall only.

### GEG 360 GEOGRAPHY OF ASIA

3, 3/0; NW14

Prerequisite: One social science course. A regional geographic analysis of south, east, and southeast Asia. Overview of the continent's natural environment. Examination of the principal elements of the cultural environment: demography and ethnicity, urbanization, economy, and political structure. Interaction between the physical and cultural environments. Offered every semester.

### GEG 362 GEOGRAPHY OF THE UNITED STATES AND CANADA

3, 3/0; WC14

Prerequisite: One Social Science course. Basic geographic elements of North America including the natural environment, natural resources, economic activities, population, and urbanization. Offered occasionally.

### GEG 364 GEOGRAPHY OF EUROPE

3, 3/0; WC14

Prerequisite: One social science course. Physiographic regions, landforms, climate, vegetation, soils, and drainage patterns. Culture regions, language, religion, population, migration, politics, economics, and impacts on the natural environment. Interdependence of regions within Europe and within the global context. Excludes the former Soviet Union. Offered every semester.

### GEG 365 SOIL SCIENCE AND MANAGEMENT

3, 3/0

Prerequisite: GEG 101 or GES 101. Introduction to the study of soils, including physical and chemical properties, weathering and soil formation, productivity and management for agriculture, soil erosion and conservation, engineering properties, soil classification. Includes regular laboratory assignments and fieldwork to enhance understanding of soil properties. Offered occasionally.

### GEG 375 PRINCIPLES OF HYDROLOGY

3, 3/0

Prerequisite: GEG 101 or GES 101. Principles of hydrology and its relationship to water resource management. Emphasis on describing the processes governing surface and groundwater movement. Field trip provides example of the practical application of hydrologic principles. Offered occasionally.

### GEG 382 WEATHER FORECASTING

3, 3/0

Prerequisites: Upper-division status and GEG 101 or GEG 240 or GES 241. A focus on synoptic and dynamic meteorology, as applied to weather forecasting. Weather conditions will be diagnosed using various case studies. Learn how to develop and to present weather forecasts. Emphasis on practice and interpretation of daily weather and modeled data. Offered occasionally.

### GEG 383 EXTREME WEATHER

3, 3/0

Prerequisite: Upper-division status. In-depth look at meteorological phenomena related to severe and unusual weather-related events and patterns, weather-analysis tools, climate-change outlooks, and social implications; planning and management strategies to prepare and respond to severe and unusual weather. Offered spring only.

### GEG 384 ATMOSPHERIC SCIENCE

3, 3/0

Prerequisite: Upper-division status. Study of the earth's atmosphere as a unique place. Emphasis on atmospheric structure and composition, dynamics of motion, moisture and clouds, atmospheric chemistry, regional and local air pollution, aurora displays, and optical phenomena. Includes a study of atmospheres ranging from those of other planets to indoor air. Offered occasionally.

### GEG 385 PAST CLIMATES AND ENVIRONMENTS

3, 3/0

Prerequisite: GEG 101 or GES 101. Methods and theories used in reconstructing and dating past climates. Focus on the past 2 million years, including proxies such as ice cores, sediment sequences, packrat middens, tree rings, corals, and historical data. Causes of climate change and human interactions emphasized. Offered occasionally.

### GEG 386 WEATHER AND SOCIETY

3, 3/0

Prerequisites: Upper-division status. Use of climatic information in various aspects of our lives to solve practical problems with environmental, social, and economic implications. The importance of climate on agriculture, human health, severe weather management, litigation, commerce, architecture, and city planning. Offered fall only.

### GEG 389 TOPIC COURSE

3, 0/0

Current topics in Geography and Environmental Geography. Offered occasionally.

### GEG 390 QUANTITATIVE METHODS IN GEOGRAPHY AND PLANNING

3, 3/0; CT14, IM14, WIIF

Prerequisites: Upper-division status. Introduction to statistical methods with a focus on spatial and time-series data analysis in Geography and Planning applications. Statistical theory is reinforced through application of commonly used computer software to solve real world problems. Offered spring only. Equivalent Course: PLN 390

### GEG 396 RESEARCH METHODS

3, 3/0; IM14, WIIF

Prerequisites: GEG 390 or PLN390, and 6 upper division credits in GEG/PLN courses. Research theories, designs, and methods relevant to conducting research in geography and planning. Research designs and methodologies for approaches with human subjects, human/social geography, physical geography, field-based research, and planning projects. Development of a research project proposal. Offered fall only. Equivalent Course: PLN 396

### GEG 405 URBAN ANALYSIS USING GIS

3, 3/0

Prerequisites: GEG 309 and GEG 325; or instructor permission. Data and techniques for analyzing urban systems and urban areas using Geographic Information Systems (GIS). Implementation of urban models introduced in GEG 309. Offered occasionally.

Equivalent Course: PLN 405

### GEG 409 INDUSTRIAL GEOGRAPHY

3, 3/0

Prerequisites: Upper-division status. The manufacturing sector, firms, and industrial location process and activities that have taken place in the United States; production methods and processes; industrial districts and the principal factors that affect the locations of firms; local and regional development; globalization. Offered occasionally.

### GEG 415 PROSEMINAR

3, 3/0

Investigation, examination, and discussion of topics of current interest in geography. Techniques and analysis of geographic research. Offered occasionally.

### GEG 416 GEOGRAPHIES OF DEVELOPMENT

3, 3/0

Prerequisites: Upper division status. Development theories, progress, issues, and challenges in developing regions around the globe. In-depth analyses of factors influencing development policies and outcomes; impact of globalization on development efforts and practices in developing areas around the world. Offered occasionally.

### GEG 418 REMOTE SENSING

3, 3/0

Prerequisites: Upper division status or Instructor Permission. Concepts of remote sensing and its applications. Principles and methods of electromagnetic radiation, aerial and space remote sensing. Basics of digital image processing, spatial data capture and interpretations from remote sensors. Offered fall only.

### GEG 419 GLOBALIZATION, TECHNOLOGY, COMPETITION, AND SERVICE ECONOMIES

3, 3/0

Prerequisite: Upper division status. Examination of globalization, technological advancement in recent years, and their effects on the service industry and competitiveness of firms and nations. In-depth studies of the U.S. service sector, competitive strategies, globalization, and new technologies are provided. Offered occasionally.

### GEG 421 WATERSHED ANALYSIS

3, 3/0

Prerequisites: Upper-division status; GEG 101 or GES 101. Introduction to the systematic analysis of stream dynamics of watersheds and the impact of humans on these dynamics. Emphasizes the importance of physical, chemical, and biological processes in watershed management. Class discussion and a class project will focus on a practical watershed assessment problem. Offered occasionally.

### GEG 423 BIOGEOGRAPHY

3, 3/0

Prerequisite: Upper-division standing. Global patterns of species distributions and the historic, environmental, and biological processes underlying these patterns. Spatial patterns of nature's geographic variation at multiple levels, from individuals to ecosystems to biomes. Impacts of humans and climate change on biogeography. Offered occasionally.

### GEG 425 FUNDAMENTALS OF GIS

3, 3/0

Prerequisites: GEG/PLN 325 or equivalent, or instructor permission. Principles and methods of spatial data capture, automation, spatial database models and structures. Fundamentals of spatial data processing and analytical methods including spatial database query, database join and spatial join, geographic location and geographic coordinate systems, spatial geocoding, buffering, map overlay, and raster surface interpolations. Offered spring only.

### GEG 427 CORPORATE APPLICATIONS IN GIS

3, 3/0

Prerequisites: GEG or PLN 325. This course is composed of a series of lectures, class assignments and projects that are designed to teach students the fundamentals and application of Geographic Information Systems (GIS) and geographic analysis within a business environment. Students will learn how to conduct specialized business GIS related projects. These projects range from data integration to market assessment and site assessment. Offered occasionally.

### GEG 428 ENVIRONMENTAL ASSESSMENT AND PLANNING APPLICATIONS IN GIS

3, 3/0

Prerequisite: GEG 425 or equivalent. Advanced concepts of GIS with a focus on spatial analytical applications in GIS for environmental assessment and planning. GIS theories and software implementations are presented through lecture and hands-on practice to solve real world environmental and planning problems. Offered fall only.

### GEG 429 ADVANCED TOPICS IN GIS

3, 3/0

Prerequisite: GEG 425 or equivalent GIS course. Builds from the topics covered in GEG 425 Fundamentals of GIS, focusing on digital representation of the human and physical environment, including location referencing from a human perspective, database design, data quality issues (how to identify and document errors), spatial statistical analysis using GIS, the fourth dimension (time) in GIS, and understanding spatial analysis algorithms and models. Offered occasionally.

### GEG 430 SENIOR THESIS

3, 3/0; CT14, WIIF

Prerequisites: GEG/PLN 390 and GEG/PLN 396 C or better and senior geography or planning major. Research in geography or planning and presentation of selected research-related topics. Offered spring only.

Equivalent Course: PLN 430

### GEG 478 GLOBAL CHANGE

3, 3/0

Prerequisite: GEG 101 or instructor permission.

Interdisciplinary study of the principles needed to understand human impacts on the natural environment. Climate variability and global warming; nutrient cycling; land-use issues; connections and feedbacks among climate, ecosystems, and biogeochemistry; impacts of global change on society; policy measures; potential solutions. Offered occasionally.

### GEG 480 AIR POLLUTION APPLICATIONS

3, 3/0

Prerequisites: Upper-division status; GEG 101, GEG 199 or an equivalent course, GEG 384, and GEG 390 or an equivalent course. Receptor, dispersion, and risk assessment modeling techniques to determine the source, fate, and impact of air pollutants. Overview of atmospheric deposition, regional transport, and global circulation models. Offered occasionally.

### GEG 485 INTERACTIVE AND WEB-BASED MAPPING

3, 3/0

Prerequisite: GEG325. Introduction to interactive and web based mapping. Explore different approaches to communicating with maps on the Internet. Learn how to create web-based mapping applications. Offered occasionally.

### GEG 488 INTERNSHIP

1-12, 0/0

Prerequisites: GEG 101 and 6 credit hours of geography or planning coursework at the upper-division level; minimum cumulative and major GPA of 2.5; background of courses or experience within area of interest; adviser and department chair permission. Guided, supervised field experiences that complement the academic program. Offered every semester.

### GEG 495 SPECIAL PROJECT

1-3, 0/0

Offered occasionally.

### GEG 497 WORKSHOP

1, 0/0

Geography workshop. Offered occasionally.

### GEG 499 INDEPENDENT STUDY

3-12, 0/0

Offered occasionally.

## Geosciences (GES)

### GES 101 INTRODUCTORY GEOLOGY

3, 3/0; NS14

Physical aspects and processes on and in the Earth, including the formation and change of properties of rocks and minerals, the theory of plate tectonics, the Solar System, volcanoes, the continents and the oceans. Aspects of earthquakes, tsunamis, glaciers, the ice ages and environmental issues. Concurrent registration in GES 103 is recommended for sciences majors. Offered every semester.

### GES 102 HISTORICAL GEOLOGY

3, 3/0; NS14

Introduction to principles and methods of delineating Earth history from the rock record first locally then through correlation and dating techniques worldwide. The role of plate tectonics in changing continental configurations. Survey of the history of the Earth and from the fossil record its life forms through geologic time. Offered every year

### GES 103 INTRODUCTORY GEOLOGY LABORATORY

1, 0/2

Identification of rocks and minerals. Map and aerial photograph interpretation. Offered occasionally.

### GES 104 GEOLOGY OF THE SEVEN SUMMITS

3, 2/2; NS14

Themed-based introductory geology course based on highest mountain on each continent known as the Seven Summits. Mountains represent a range of geological processes and show impact of climate change. Readings, maps and spectacular satellite images used to understand geology of the Seven Summits. Offered every Fall semester.

### GES 111 OCEANOGRAPHY

3, 3/0; NS14

Study of the oceans including the application of geology, biology, chemistry, physics and engineering and how they interact in different parts of the ocean environment. Strong interdisciplinary focus of ocean processes and how they are connected to our lives. Topics include how technology has advanced our understanding of the oceans, sampling seawater and sediments and mapping the seafloor, opening and closing of ocean basins, formation and erosion of beaches, life in the oceans, ocean resources, marine pollution, and the role of the oceans in global climate change. Offered fall only.

### GES 123 ENVIRONMENTAL EARTH SCIENCE

3, 3/0; NS14

An investigation of the impact of society on the natural environment. Examines natural resources; global climate change; and soil, water, and land use issues. The complex interrelationship of global systems and societies' attempts to control or alter them. The unique perspective of geoscientists to environmental issues. Offered every semester.

### GES 124 GEOLOGIC HAZARDS

3, 3/0; NS14

A study of natural events and processes that impact human life and health, with an emphasis on catastrophic geological events including earthquakes, volcanic eruptions, and landslides. Includes causes, physical effects, prediction and societal implications.

### GES 131 INTRODUCTORY ASTRONOMY

3, 3/0; NS14

Non-mathematical survey of the astronomical universe, including naked-eye astronomy, physical nature of planets, satellites, stars, galaxies, and the "Big Bang". How composition, distance, temperature, size, mass, and age are found for stars. Origins of planets, stars, and galaxies. Invention of technology as a driving force in astronomy. Planetarium visualizations, assignments, and demonstrations.

### GES 132 THE SOLAR SYSTEM

3, 3/0; NS14

Makeup and characteristics of our solar system; formation hypotheses; geologic processes acting on solar system bodies; comparison of the planets; the search for other solar systems and life elsewhere. Expansion of solar system exploration due to advances in technology and its effect on society.

### GES 189 TOPIC COURSE

1-4, 1/0

Current introductory topics in Geology and Earth Sciences. Offered occasionally.

### GES 200 FIRST YEAR GEOLOGY EXPERIENCE

3, 1/4

Introduction to research for geology and earth sciences students and preparation for engaging in undergraduate geology research. Laboratory and field techniques used by geoscientists and the types of questions investigated by geoscientists. Students conduct a class research project to investigate a laboratory or field problem. Includes field trips. Offered every spring semester.

### GES 201 PHYSICAL GEOLOGY

4, 3/2; CT14, IM14

First of a two-course sequence introducing the physical processes that formed Earth and have shaped our planet through time. Topics include Earth materials; plate tectonics; climate, ocean, and atmosphere; and deep time. Student experiences through skill-building activities and experiments. Field trips required. Offered every fall semester.

### GES 202 EARTH AND ENVIRONMENTS THROUGH TIME

4, 2/4

How the Earth and its atmosphere and biosphere have changed over geologic time, and how this has impacted life on Earth. Labs include the identification of major fossil groups and interpreting geologic data used to construct ancient environments. Required field trips. Offered every spring semester.

### GES 241 METEOROLOGY

3, 3/0; NS14

An introduction to weather, including the makeup of the atmosphere, seasonality, heat and radiation balance, temperature, humidity, and precipitation, atmospheric motion, atmospheric pressure and wind, air masses and fronts, severe weather, meteorological instrumentation, local weather, climate controls, and synoptic forecasting. Includes laboratory modules. Emphasis on the relationship between weather systems, technology, and humans. Offered spring only. Equivalent Course: GEG 241

### GES 295 RESEARCH EXPERIENCE IN EARTH SCIENCES

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### GES 300 SEDIMENTOLOGY

3, 2/2

Prerequisites: GES 101 and GES 103 or GES 201.

Introduction to the dynamics of erosion, transport, deposition of sedimentary particles. Introduction to modern and ancient sedimentary environments. Offered fall only.

### GES 301 STRATIGRAPHY

3, 3/0

Prerequisites: GES 101 and GES 103 or GES 201. Prerequisite or corequisite: GES 102. Basic principles and interpretation of the stratigraphic record, with emphasis on the practical application of stratigraphic data in interpretation of earth history and exploration for fossil fuels and groundwater resources. Offered spring only.

### GES 302 INVERTEBRATE PALEONTOLOGY

4, 4/2

Prerequisite: GES 101 or GES 201 or instructor permission. Prerequisite or corequisite: GES 102. Basic principles of the nature and interpretation of the invertebrate fossil record, with an overview of the types of organisms commonly preserved as fossils. Emphasis on practical applications of paleontology. Offered occasionally.

### GES 303 MINERALOGY

4, 3/3; WIIF

Prerequisites: GES 101 and GES 103 or GES 201 or instructor permission; one semester chemistry recommended. Crystals, minerals, and rocks, emphasizing description, identification, and origin. Offered fall only.

### GES 306 SEDIMENTOLOGY AND STRATIGRAPHY

4, 3/1

Prerequisites: GES 101 and GES 103, or GES 201, or equivalent or instructor permission. The study of sediments and strata. Topics include: properties of fluid flow; sediment transport processes; sediment texture and composition; sedimentary structures; facies and stratigraphic concepts; sedimentary environments; and interpretation of strata. Field excursions in WNY required for some laboratories.

### GES 307 GEOMORPHOLOGY

4, 3/3

Prerequisite: GES 101 or GEG 101 or GES 201 or instructor permission. Internal and external processes and structural controls that shape the surface of Earth and other solid solar system bodies. Emphasis on selected geologic environments. Field trips required. Offered spring only.

### GES 323 THIRD- YEAR RESEARCH AND FIELD METHODS EXPERIENCE

3, 1/4

Prerequisites: GES 203 or instructor permission. The second of a three-course sequence focused on basic to intermediate data analysis methods in the geosciences and the application these methods to explore relevant geology problems. Critical thinking about how geologic research contributes to understanding Earth history and global challenges related to resources and hazards. Offered every fall semester.

### GES 331 MODERN SOLAR SYSTEM ASTRONOMY

3, 3/0

Prerequisite: GES 131 or equivalent. The moon and planets, their appearance, atmospheres, and surfaces. Planetary magnetic fields, asteroids, meteoroids, comets. Theories of the origin of the planetary system, the possibility of extraterrestrial life. Emphasis on recent problems in our understanding of the solar system. Offered occasionally.

### GES 332 STELLAR AND GALACTIC ASTRONOMY

3, 3/0

Prerequisite: GES 131 or equivalent. How astronomers have determined the properties, energy, masses, and composition of stars, stellar evolution, the structure of the galaxy, and the movement of stars in the galaxy. Offered occasionally.



**GES 335 METHODS OF OBSERVATIONAL ASTRONOMY**

3, 3/0

Prerequisite: GES 131 or equivalent. Locating celestial objects in the night sky. Use of astronomical telescopes to locate, observe, and photograph stars, nebulae, and galaxies. Use of observing aids. Offered occasionally.

**GES 339 ASTRONOMY AND COSMOLOGY**

3, 3/0

Prerequisite: GES 131 or equivalent. Cosmology, the primeval fireball, quasars, pulsars, black holes, origin of the elements. Offered occasionally.

**GES 350 ENVIRONMENTAL GEOCHEMISTRY**

3, 3/0

Prerequisites: GES 101 or GES 201 and upper-division status. Chemical nature of the earth, emphasizing chemistry associated with the polluted environment. Offered alternate years.

**GES 360 FORENSIC GEOSCIENCE**

3, 2/2

Prerequisite: Upper-division status or permission of instructor. Application of the principles of earth science to the law. With a "hands-on" approach, and details from actual criminal cases, introduces a variety of geological subjects such as rock and mineral types, geological and topographical maps, fossils, sand and soil through their forensic application. Offered alternate years.

**GES 389 TOPIC COURSE**

1-6, 0/0

Current advanced topics in Geology and Earth Sciences. Offered occasionally.

**GES 401 IGNEOUS AND METAMORPHIC PETROLOGY**

4, 3/3

Prerequisite: GES 303 or permission of instructor. Advanced study of igneous and metamorphic rocks and petrogenetic processes, including the thermodynamics of magma, crystallization and recrystallization, and the field relations, fabrics and tectonics associated with these rocks. Required term project and field trips. Offered occasionally.

**GES 403 GLACIAL GEOLOGY**

3, 3/0

Prerequisite: GES 307. Glacial processes, landforms, and landscapes, with emphasis on New York State. Develops a model for the sequence of glacial events and the causes of climate change. Field trips. Offered occasionally.

**GES 405 GEOLOGY OF NORTH AMERICA**

3, 3/0

Prerequisites: GES 101 or 201 and GES 102 or instructor permission. Major physical provinces of the United States and adjacent areas; their geologic history, structure, and topographic development. Offered occasionally.

**GES 408 STRUCTURAL GEOLOGY**

4, 3/3; WIIF

Prerequisites: GES 101 and GES 103 or GES 201. Folds, faults, and other structural features in sedimentary and metamorphic terrains. Introduction to rock mechanics, regional tectonics. Offered spring only.

**GES 410 UNDERGRADUATE RESEARCH SEMINAR**

1, 1/0

Prerequisites: GES 101 and GES 103 or GES 201; instructor permission. Common topics related to undergraduate research in the geosciences including research methods, handling data, making interpretations, preparing for oral and poster presentations, and preparing for graduate school and professional geology. Must be engaged in (or planning) research with an Earth Sciences faculty member. May be taken more than once. Offered every semester.

**GES 418 STRUCTURAL GEOLOGY FIELD EXPERIENCE**

1, 1/0

Prerequisites: GES 303 or instructor permission; Corequisite: GES 408. Field study topics in igneous and metamorphic rocks related to field sites visited in conjunction with GES 408 Structural Geology. Required weekend field trip (4 days). Students must be enrolled in GES 408. Offered every spring semester.

**GES 428 GEOLOGICAL HAZARDS**

3, 1/4

Prerequisites: GES 306, GES 307, GES 408 or instructor permission. Causes, risk assessment, and mitigation of geologic hazards in marine and terrestrial environments, including volcanos, earthquakes, tsunamis, shoreline erosion, flooding, subsidence, avalanches, landslides, mud and debris flows. Emphasis on identifying and modeling underlying natural and human-induced disturbances that result in hazards and delineating risk potential. Use of case studies to map and model hazards with consideration of mitigation options. Offered every fall semester.

**GES 431 PLANETARIUM SEMINAR**

3, 2/2

Prerequisites: Two semesters of astronomy. The celestial sphere; operating, maintaining, and administering the planetarium; audiovisual aids in the planetarium; planetarium programming; using the planetarium to teach. Includes supervised teaching experience. Offered occasionally.

**GES 433 GEOLOGY INDEPENDENT RESEARCH**

3, 1/4

Prerequisites: GES 203 and GES 323, or instructor permission. Designing and conducting original undergraduate research in an approved geoscience topic. Advanced-level research methodologies are applied and research findings are presented using professional writing and oral presentations. Faculty mentor guidance is provided throughout the course. May be taken more than once. Offered every semester.

**GES 444 GLOBAL SYSTEMS GEOMORPHOLOGY**

3, 0/0

Prerequisite: GES 307. Fundamentals of remote sensing and image processing will be presented early in the course as an introduction to the interpretation of planetary data sets. The goal is to understand the relationships between processes influencing landscape evolution on the Earth and to address possible reasons for similarities and/or differences in the number and intensity of processes operating on other planets. Offered occasionally.

### GES 450 FIELD GEOLOGY

3, 2/3

Prerequisites: GES 303 and GES 408, or permission of instructor. Theory and application of principles and techniques in the mapping and interpretation of geological structures in the field. Using geological data to construct geological maps and reports. Classroom and field study. Includes field trips and technical report writing. Offered fall only.

### GES 452 HYDROGEOLOGY

3, 3/0

Prerequisites: GES 101 or GEG 101 or GES 201 and at least one 300-level GES course. Fundamentals of the occurrence, movement, and management of our largest resource of readily available fresh water. Includes groundwater protection and remediation of already contaminated supplies to increase environmental awareness. Offered every year.

### GES 460 ENVIRONMENTAL FIELD METHODS

3, 2/2

Prerequisites: Completion of IF Natural Science requirement, IF Mathematics/Quantitative Reasoning requirement, and upper division standing. GES 350 is strongly encouraged. Applied study of environmental contaminant migration and distribution with particular emphasis on sampling and detection methods. Discussion of federal and local environmental laws and regulations, classification of hazardous chemicals, and remediation approaches used by environmental professionals. Offered spring only.

### GES 465 TECTONICS

3, 3/0

Prerequisites: GES 101 or GES 201 and GES 408 (or equivalent), upper-division status or instructor permission. Advanced principles, evidence and examples of the plate tectonics paradigm as the unifying theory of geology. Topics include kinematics of plates, the nature of plate boundaries and the analysis of theories involved in the current and historical design of the paradigm. Required term project and oral presentations. Offered occasionally.

### GES 471 GEOLOGY RESEARCH SEMINAR

3, 3/0

Prerequisites: GES 203 and GES 323 or instructor permission. Seminar on common topics related to undergraduate research in the geosciences including research methods, handling data, making interpretations, preparing for oral and poster presentations, and preparing for graduate school and professional geology. These topics are addressed from an advanced standpoint. Offered every fall semester.

### GES 472 GEOLOGY SENIOR SEMINAR

3, 3/0

Prerequisites: Senior status Geology or Earth Science major, or instructor permission. Detailed presentation of a selected topic in geological sciences. Capstone course integrating geological content covered in the sequence of courses taken in the major. High level survey of a specific topic reflecting current and emerging themes in the geosciences; advanced data analysis and critical review of scientific literature. Interconnectedness of and feedbacks between geoscience processes. Connections between the geosciences and other disciplines. Offered spring semester only.

### GES 488 INTERNSHIP

3-12, 0/0

Prerequisites: 2.5 GPA overall. Requires department application and approval. Practical work on an individual basis with a participating organization.

### GES 495 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Approval of a faculty sponsor. Environment-, energy-, geology-, or astronomy -related areas.

### GES 497 WORKSHOP

1-4, 0/0

Workshop on topics in Geology or Earth Sciences. Offered occasionally.

### GES 498 HONORS RESEARCH

1-3, 0/0

Prerequisite: Acceptance in geology or earth science honors program. Includes completion of honor's thesis and seminar. May be repeated for a maximum of 6 credit hours.

### GES 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisite: Faculty sponsor permission. Environment-, energy-, geology-, or astronomy-related areas.

## German (GER)

### GER 101 BEGINNING GERMAN I

3, 3/0; GE14

Fundamentals of German with emphasis on the spoken and written language. Offered every semester.

### GER 102 BEGINNING GERMAN II

3, 3/0; GE14

Prerequisite: GER 101. Continuation of GER 101. Offered every semester.

### GER 201 INTERMEDIATE GERMAN I

3, 3/0

Prerequisite: GER 102. Further development of basic skills with emphasis on reading and writing. Offered fall only.

### GER 202 INTERMEDIATE GERMAN II

3, 3/0

Prerequisite: GER 201. Continuation of GER 201. Offered spring only.

### GER 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### GER 301 GERMAN CONVERSATION AND COMPOSITION I

3, 3/0

Prerequisite: GER 202. Practice in spoken and written German with emphasis on the spoken language. Offered occasionally.

### GER 302 GERMAN CONVERSATION AND COMPOSITION II

3, 3/0

Prerequisite: GER 202. Practice in spoken and written German with emphasis on the written language. Offered occasionally.

### GER 337 MODERN GERMAN LITERATURE IN TRANSLATION

3, 3/0

Prerequisite: One literature course. Literary trends, ideas, and techniques of modern German literature as manifested in selected works of major German literary figures. German minors must obtain department chair and course instructor permission. Offered occasionally.

### GER 389 TOPICS COURSE

3, 0/0

Offered occasionally.

### GER 495 SPECIAL PROJECT

3, 0/0

Offered occasionally.

### GER 497 WORKSHOP

3, 0/0

Offered occasionally.

## Global Studies (GST)

### GST 200 INTRODUCTION TO GLOBAL STUDIES

3, 3/0

Prerequisites: None. Introduction to key concepts, issues, and approaches used in Global Studies including social, political, historical, economic, and geographic perspectives. Topics include migrations, diasporas, the global image of the United States, intercultural conflicts, and study abroad programs. Required for Global Studies minor.

Equivalent Course: IST 100

### GST 295 GLOBAL SPECIAL PROJECT

1-3, 1/0

Prerequisite: Instructor permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered Occasionally.

### GST 495 GLOBAL SPECIAL PROJECT

1-3, 1/0

Prerequisite: Instructor permission. Special project in Global Studies. Offered every semester.

### GST 499 GLOBAL INDEPENDENT STUDY

3-12, 0/0

Prerequisite: Instructor permission. Offered every semester.

## Greek (GRK)

### GRK 101 BEGINNING NEW TESTAMENT GREEK I

3, 3/0; GE14

Fundamentals of Koine Greek with emphasis on reading. Offered fall only.

### GRK 102 BEGINNING NEW TESTAMENT GREEK II

3, 3/0; GE14

Prerequisite: GRK 101. Continuation of GRK 101. Offered spring only.

### GRK 201 INTERMEDIATE NEW TESTAMENT GREEK (KOINE)

3, 3/0

Prerequisite: GRK 102 or equivalent. Further development of reading and writing ability, with continuing emphasis on the comprehension of the written language. Offered occasionally.

### GRK 202 INTERMEDIATE NEW TESTAMENT GREEK (KOINE)

3, 3/0

Prerequisite: GRK 201 or equivalent. Continuation of GRK201. Abilities to read and study text of the New Testament and other works extant in Koine Greek. Offered occasionally.

## Health and Wellness (HEW)

### HEW 189 TOPICS COURSE

1-3, 1/0

Current topics in health and wellness. Offered occasionally.

### HEW 200 FITNESS FOR LIVING

2, 2/0

Through a series of lecture/discussion sessions, laboratory experiences, and specific movement experiences the how, what, and why of physical activity and exercise are presented.

### HEW 203 INTRODUCTION TO SPORTS ADMINISTRATION

3, 3/0

Overview of sports administration with concentration in collegiate athletics. Topics include marketing, promotions, budgeting, facilities, external relations (fundraising, development, corporate partnership), compliance, public relations. Offered every semester.

### HEW 204 PERSONAL HEALTH

3, 3/0

The many problems and advances in medicine and public health as they affect the health status of the individual, family, school, and community. C grade or better is required in HEW 204 for some upper-division HEW courses. Offered every semester and summer.

### HEW 225 INTRODUCTION TO DISEASE PREVENTION

3, 3/0

Introduction to the general principles of disease. Etiology, signs, symptoms, treatment, and management of diseases that affect individual organs in the various body systems. Offered every semester, J Term and summer.

### HEW 295 RESEARCH EXPERIENCE IN HEALTH AND WELLNESS

1-3, 0/0

Prerequisite: Instructor permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### HEW 301 KINESIOLOGY: APPLIED ANATOMY AND BIOMECHANICS

3, 3/0

Prerequisite: Junior or Senior Status. Study of the skeletal, neural, and muscular systems and the biomechanical principles of human movement and their relationship to exercise, fitness, and athletic performance. Offered spring and summer.

Equivalent Course: HPR 301

**HEW 303 LEGAL FOUNDATIONS OF SPORT ADMINISTRATION**

3, 3/0

Overview of the basic vocabulary, legal concepts, liability issues, and legal concerns relevant to sport facilities management, operations, and marketing. Fundamentals of sports law as it pertains to sport management, marketing, facilities, resort venues, and tourism.

**HEW 304 EXERCISE PHYSIOLOGY I**

3, 3/0

Prerequisite: BIO 308. Introduction to concepts of human anatomy and physiology as related to exercise and human performance. Includes, but is not limited to, an introduction to the major systems of the body as they relate to exercise. Functions and purpose of the musculoskeletal system and cardiorespiratory system in healthy populations. Introduction to the roles of energy systems during physical activity and exercise. Offered every semester.

**HEW 305 COMMUNITY HEALTH/WELLNESS**

3, 3/0

Prerequisite: HEW 225. Community health as it relates to world concerns, U.S. interests, and local community concerns. The interrelatedness of health care to various societal issues. Offered every semester.

**HEW 306 EXERCISE PHYSIOLOGY II**

3, 3/0

Prerequisites: HEW 304 and BIO 308. Exercise and its effects on the human body. Practical knowledge of the principles of fitness testing and exercise prescription and application of knowledge to improve fitness and athletic performance in healthy and diseased human populations. Offered fall and spring semesters.

**HEW 308 WOMEN'S HEALTH ISSUES**

3, 3/0

Prerequisite: Junior or Senior Status. Gender differences in health outcomes, health-care practices, and health behavior, with primary emphasis on women. Historical and current perspectives on women's health issues. Part of Women and Gender studies minor. Offered fall, J Term and summer.

**HEW 310 HEALTH STANDARDS AND EMERGENCY CARE**

3, 3/0

Prerequisite: BIO 100 or BIO 111. Promotes health and safety standards and provides skills in advanced emergency care. Competencies in various areas of emergency medicine include bandaging, splinting, victim examination, bleeding/shock emergencies, and emergency childbirth. Includes competencies and proficiency in teaching OSHA safety standards for infectious agents. Offered every semester.

**HEW 312 METHODS AND MATERIALS IN HEALTH AND WELLNESS**

3, 3/0; WIIF

Prerequisites: CWP 102, HEW 204, and HEW 305. Oral and written communication skills appropriately delivered via instructional methodologies and materials necessary to create, select, and deliver health and wellness programs; constructed for health education/promotion and wellness audiences.

**HEW 320 PSYCHOACTIVE DRUGS AND HEALTH**

3, 3/0

Prerequisite: HEW 305. Widespread effects of drug abuse, its relationship to health and disease, and the implication and application for education and theory. Offered fall only.

**HEW 322 PRINCIPLES OF HEALTH PROMOTION SCIENCES**

3, 3/0

Prerequisites: HEW 204, HEW 225. Explore principles of social-ecological change that promote better health at the population level. Identify environmental and social conditions that affect health and select intervention strategies that change those systems and conditions in communities.

**HEW 326 INTRODUCTION TO HEALTH DATA VISUALIZATION AND ANALYTICS**

3, 3/0

Prerequisites: CIS 101; Satisfaction of Intellectual Foundations Mathematics and Quantitative Reasoning requirement. Introduction to core concepts for understanding and using data in fields of health. Topics fundamental to understanding how to analyze data. Analytic methods for expressing data and information in ways to enhance the development, implementation, and evaluation of health promotion programs. Develop a research project using health data.

**HEW 327 INTRODUCTION TO MEDICAL ANTHROPOLOGY**

3, 3/0; NW14

Prerequisite: ANT 100 or ANT 101 or permission of instructor. An overview of the history and development of concepts and practices of medicine worldwide. Theories and procedures in illness, sickness, health and well-being in and from a variety of cultural perspectives, historical and contemporary, East and West, Stone Age, folk, shaman, traditional Western and herbal medicine, including healing and religion, homeopathy, and anthropological study of health-care institutions. Offered occasionally. Equivalent Course: ANT 327

**HEW 330 PRINCIPLES OF PERSONAL TRAINING**

3, 3/0

Prerequisites HEW 304 and HEW 306. Fitness assessment techniques, program design and implementation for a variety of populations, and motivational techniques. Prepares students for employment within the personal training and fitness industry, and for the national certifications offered by the National Strength and Conditioning Association and the American College of Sports Medicine.

**HEW 331 PRINCIPLES OF STRENGTH AND CONDITIONING**

3, 3/0

Prerequisites: HEW 306 and NFS 102. Program design, motivational techniques, and implementation of strength and conditioning techniques for a variety of populations. Prepares students with the knowledge and skills to work in the physical fitness and sports performance industries. Prepares students for the national certifications offered by the NSCA, ACE, and NASM. Offered occasionally.

**HEW 335 PREVENTION AND CARE OF ATHLETIC INJURIES**

3, 3/0

The relationships among conditioning, performance, and injury prevention. Includes techniques and programs of body conditioning for specific sports, and the possible treatment of athletic injuries. A required course for students choosing either to meet minimal standards for coaching certification or to meet the requirements of the coaching minor. Offered fall only.

Equivalent Course: HPR 335

### HEW 345 WELLNESS, FITNESS, AND AGING

3, 3/0

Prerequisite: Junior or Senior status. Acquaints students of gerontology with the implications of exercise and physical fitness for the quality of life of older citizens. Covers the aging process and its relationship to physiological factors associated with exercise and fitness. Differences in capacities for exercise. Principles for guiding the selection, programming, and supervision of activities. Part of Gerontology minor. Offered spring and summer.

### HEW 350 INTRODUCTION TO EPIDEMIOLOGY

3, 3/0

Prerequisites: Satisfaction of Intellectual Foundations Mathematics and Quantitative Reasoning requirement. Introduction to epidemiology and epidemiological research for incidence, distribution, and control of diseases and health-related factors. Conceptual and practical issues encountered in design, conduct, and analysis of descriptive, experimental, and clinical epidemiologic studies. Includes basic research designs, estimating outcome measures, establishing cause and effect, and effectiveness of interventions to prevent and cure disease. Offered occasionally.

### HEW 380 ETHICAL CONSIDERATIONS IN SPORT ADMINISTRATION

3, 3/0

Prerequisite: PHI 102. Situations that require the sport facilities manager to examine how legal and ethical principles influence decisions. Selected ethical concepts and an examination of ethical diversity in management at resort and tourist locales. Specific legal topics, related ethical considerations, and critical analysis.

### HEW 389 TOPICS COURSE

1-3, 1/0

Current advanced topics in health and wellness. Offered occasionally.

Equivalent Course: HPR 389

### HEW 401 ASSESSMENT AND EVALUATION IN HEALTH WELLNESS

3, 3/0; IM14

Prerequisites: HEW 305. Concepts surrounding assessment and evaluation of health promotion programs; health promotion process and planning including needs assessment, evaluation measures, research design, and measurement evaluation.

### HEW 411 CRITICAL ISSUES IN HEALTH AND WELLNESS

3, 3/0; CT14, WIIF

Prerequisites: HEW 312 and CWP 102. One's interaction with his/her many environments and the implications this has on various health behaviors. Facts, attitudes, and behaviors important in confronting critical and current health issues.

### HEW 412 COMMUNITY HEALTH PROMOTION PROGRAMS

3, 3/0

Prerequisites: HEW 312. Provides an opportunity to use community health promotion concepts. Explores the major components of planning and implementing community health promotion programs. Current behavioral and cognitive theories and models of health promotion programs will be examined. Principles presented in class during exams and health promotion-planning experiences. Offered every semester.

### HEW 425 ALCOHOL PROBLEMS

3, 3/0

Prerequisite: Junior or Senior Status. A seminar designed for students as prospective citizens, teachers, supervisors, and voluntary government personnel concerned with individual and community health problems. Emphasis on understanding the widespread effects of alcohol, its relationship to health and disease, and implications for health and therapy. Offered spring only.

### HEW 426 APPLIED DATA ANALYSIS FOR HEALTH PROMOTION SCIENCES

3, 3/0

Prerequisites: HEW 326 (minimum grade of C) or MAT 311 (minimum grade of C). Expansion of core concepts introduced in prerequisite courses. Focus on developing competencies in applied methods for analyzing and visualizing health-related data. Complete multiple labs and research projects using health data to enhance the development, implementation, and evaluation of health promotion programs.

### HEW 430 DIMENSIONS OF HUMAN SEXUALITY

3, 3/0

Prerequisites: HEW 204 (grade of C or better), junior or senior status. Principles of public health applied to understand sexual health issues. Health-based approach to understand factors that influence human sexual behavior. Physical, emotional, mental, and social well-being in relation to sexuality. Prevention and wellness approaches in promoting sexual health when considering culture, religion, age, gender, race, ethnicity, and sexual orientation. Offered annually.

### HEW 488 INTERNSHIP

3-12, 0/0

Prerequisites: HEW 412 or HEW 411 as prerequisite or co-requisite, permission of instructor. Through mentored field experience, practice in the professional skills of an entry-level community health education and promotion specialist. Offered every spring.

Equivalent Course: HPR 488

### HEW 495 SPECIAL PROJECT

1-3, 0/0

Offered summers only.

Equivalent Course: HPR 495

### HEW 497 WORKSHOP

1-3, 0/0

Offered occasionally.

### HEW 499 INDEPENDENT STUDY

3-12, 0/0

Offered occasionally.

Equivalent Course: HPR 499

# History (HIS)

## HIS 106 HISTORY OF AMERICAN LIFE I

3, 3/0; AH14

Exploration and colonization: the meeting of cultures; colonial America; shaping an identity; contest for the continent; prologue to independence; independence and the new nation; framing a constitution; religious, ethnic, and cultural diversity in the new nation; Jeffersonian Republicanism; nationalism and economic expansion; the emergence of social strains; Jacksonian democracy; religion and reform; expansion and sectional crisis; American life and culture in the mid-nineteenth century; a decade of crisis; the Civil War; aftermath of war. Offered every semester.

## HIS 107 HISTORY OF AMERICAN LIFE II

3, 3/0; AH14

The new South; reunion, readjustment, and constitutional freedoms; the West; the economic revolution; the urban society; politics in the Gilded Age; America's emergence as a world power; the Progressive Era; World War I and its aftermath; the 1920s; the New Deal; from isolationism to globalism; World War II; postwar adjustments; the Kennedy and Johnson years; resurgent Republicanism. Offered every semester.

## HIS 110 HISTORY AND IDEAS

3, 3/0

Examination of selected problems in an historical frame of reference; emphasis on techniques of critical analysis, writing, and class discussion. Designed for freshmen and sophomores without previous college level history courses.

## HIS 115 FOUNDATIONS OF WESTERN CIVILIZATION

3, 3/0; WC14

Major contributions of the Greek, Roman, and medieval civilizations to the creation of Western heritage in philosophy, art, literature, science, political structure, economy, and law. Offered every semester.

## HIS 116 EUROPE SINCE 1500

3, 3/0; WC14

Growing concern of man and his relation to his world. Development of nationalism. The concepts of freedom and democracy. Increasing attention to the spirit of inquiry. Scientific development and technology and their impact on society. The formulation of fascism, communism, socialism, and the concern for political ideology. Offered every semester.

## HIS 117 TWENTIETH-CENTURY EUROPE

3, 3/0; WC14

Political, social, cultural, and intellectual history of twentieth-century Europe. Factors contributing to World War I. The Versailles settlement. The Russian Revolution and the rise of communism. Collapse of collective security and the rise of fascism and national socialism. Western democracies between the wars. The road to World War II. Restoration of the Atlantic Community. The challenge of the nuclear age. Offered every semester.

## HIS 120 HISTORY OF AMERICAN URBAN TECHNOLOGY

3, 3/0

Development and interaction of technology and urban America, from Indian villages and colonial towns to high technology reindustrialization. American Indian and European traditions, early urban production and planning, industrialism and infrastructure, electricity's impact, reforms in housing and health, leisure and consumption technology, and technology as a competitive factor in national and international urban development. Offered occasionally.

## HIS 121 INTRODUCTION TO JEWISH HISTORY

3, 0/0

Introduction to Jewish history and historiography. The ancient Near East; the Bible as history; Moses and the prophets; daily life in Bible times; Jesus and the rise of Pauline Christianity; the fall of the Jewish state; Jesus in exile.

## HIS 189 TOPICS COURSE

1-9, 1/0

Offered occasionally.

## HIS 201 THE AGE OF DISCOVERY

3, 3/0

Classical and medieval background of the Age of Discovery; myth and reality of cosmography at the beginning of the Great Age of Discovery; early travelers; technological innovation; economic, social and cultural forces supporting discovery and exploration; Portuguese, Spanish, French, and English voyages; impact of discovery on economic, literary, artistic, and cultural conditions; New World on the eve of the period of colonization.

## HIS 204 GLOBAL HISTORY OF THE TWENTIETH CENTURY

3, 3/0

The history of the twentieth century, emphasizing the interrelationship of events and interaction of movements and ideas within a global context. Offered occasionally.

## HIS 210 HISTORY OF MODERN ASIA

3, 3/0

China, Japan, and Southeast Asia in modern times. Rise of nationalism, internal social and political conflict, response to Western powers. Impact of ideology and totalitarianism. Industry and technology. Problems of international wars. Offered occasionally.

## HIS 230 WORLD CIVILIZATIONS I

3, 3/0; NW14

Origins, cultural achievements, and interrelationships of the various civilizations of the world to approximately 1500 C.E. Topics include the prehistoric era and the origins of human civilization; civilizations of the ancient Near East; early civilizations of Africa and the Americas; East Asian culture and civilization; Indian (South Asian) culture and civilization; Greek and Roman civilization; early civilizations of Southeast Asia; Islamic civilization; the Byzantine empire and medieval Europe. Offered occasionally.

### HIS 231 WORLD CIVILIZATIONS II

3, 3/0; NW14

Origins, cultural achievements, and interrelationships of the various civilizations of the world from approximately 1500 to 1914 (World War I). Topics include European culture and civilization from the Renaissance to World War I; Islamic civilization in Asia and the Middle East; East Asian culture and civilization in the late traditional era; African culture and politics in an era of European hegemony; colonial Latin American and the independent states of the postcolonial era; the U.S. and Canada; Western imperialism and global interactions in the modern era. Offered occasionally.

### HIS 260 THE TURBULENT SIXTIES

3, 0/0

Survey of the major events and trends of the 1960s. Major emphasis given to the Civil Rights movement, the events related to and the reactions to the Vietnam war, the counter-culture, and the social and intellectual movements of the decade.

### HIS 300 RESEARCH AND WRITING SEMINAR

3, 3/0; CT14, IM14, WIIF

Prerequisites: CWP 101 and CWP 102. History and social studies education majors only. In-depth instruction on the historical methods of research and writing according to the standards of the profession. Students research, analyze, and interpret historical materials; provide documentation; and communicate lucidly and effectively in writing. Should be taken before enrolling in other upper-division history courses. Offered every semester.

### HIS 301 COUNTER CULTURE/UTOPIAS

3, 3/0

Uses of utopias; biblical, classical, and medieval background; famous Renaissance utopias; European utopian focus on America in the 16th and 17th centuries; religious utopias; famous 19th century utopias, 20th century utopias; intentional communes; analysis of successful and unsuccessful utopias; utopian art and literature; the utopian vision.

### HIS 302 HISTORY OF WOMEN IN AMERICA

3, 3/0; DI14

The impact of women on American development from colonial times to the present. Effects of history on the roles and status of women. Changes in women's role in the family, economic contributions, legal status, struggle for equal rights. Women and demographic changes. Developing perceptions of women about society. Political growth and women. Society's regard for women in a historical context and the differences and/or similarities between women from various ethnic, racial, religious, and socioeconomic groups. Offered occasionally.

### HIS 303 THE CITY IN AMERICAN HISTORY

3, 3/0

Historical background; colonial period; formation of a new nation; towns in westward expansion; industrialization; political machines; municipal reform; the city in American thought; twentieth century developments; the contemporary scene.

### HIS 304 EUROPE FROM NAPOLEON TO THE FIRST WORLD WAR

3, 3/0

Major influences in nineteenth-century Europe; nationalism, imperialism, Industrial Revolution, democracy, and socialism; causes of World War I. Offered occasionally.

### HIS 306 AFRICA TO 1800

3, 3/0; NW14

Prerequisite: Upper-division status or instructor permission. African history from the Paleolithic period to 1800. Development of agriculture, ancient civilizations of Africa, iron working societies, the trans-Saharan trade, the impact of Islam and Christianity, traditional African political and social arrangements, the slave trade, and the European presence in early modern Africa. Offered occasionally. Equivalent Course: AAS 306

### HIS 307 HISTORY OF INDIA

3, 3/0; NW14

Prerequisite: Upper-division status. The history of India from ancient times to the present. Topics include the early Indus civilizations; religion and society in the Aryan age; the birth of Buddhism; Ashoka and the Mauryan Empire; classical Hinduism; Gupta civilization; the impact of Islam; the Mughal Empire; the era of British colonialism; the emergence of modern nationalism; independent India, Pakistan, and Bangladesh. Offered occasionally.

### HIS 308 HISTORY OF EARLY CANADA

3, 3/0

The early history of Canada, from before the commencement of European exploration to the end of World War I Confederation in 1867. Topics include cultural and religious heritage of Canada's native peoples, histories of New France and British North America, the fight for responsible government and Canadian confederation. Offered occasionally.

### HIS 309 AMERICAN LEADERS

3, 3/0

Selected leaders in critical periods or areas of American civilization, such as Benjamin Franklin and revolutionary America; John Marshall and federal power; Booker T. Washington and W. E. B. DuBois; contrasting black leaders; Lincoln Steffens and the muckrakers; Henry Ford and mass production. Offered occasionally.

### HIS 310 HISTORY OF EAST ASIA: THE TRADITIONAL ERA

3, 3/0; NW14

Prerequisite: Upper-division status. China, Korea, and Japan before the coming of the West. Traditional cultures, geography, political and religious institutions. Impact of Western ideas and colonialism. Offered occasionally.

### HIS 311 AMERICAN IMMIGRATION AND EMIGRATION

3, 3/0; DI14

Immigration and ethnicity from the colonial period to the present. World population movements, shifts in governmental immigration policy, the changing meaning of ethnicity and race, and its impact on the immigrant experience. How and why immigrants came, degree of assimilation and alienation, work and leisure experiences, demographics, coping mechanisms, transmission of cultural traditions, and generational differences. Offered occasionally.

### HIS 312 HISTORY OF ITALY

3, 3/0

Classical and medieval foundation. Renaissance Italy. Prelude to unification. Italian nationalism, liberalism, and socialism. Italy under fascism. The Italian Republic, accomplishments and problems. Offered occasionally.

**HIS 313 POLITICS AND HISTORY OF THE MIDDLE EAST**

3, 3/0

Political culture and geographic settings. Historical development since the French invasion of Egypt. The disintegration of the Ottoman Empire and the rise of Western colonialism. Nationalist movements, independence, and turmoil. Post-World War II political evolution. Diversity and problems. Emphasis on the region's key industries. Offered occasionally.

Equivalent Course: PSC 345

**HIS 314 MODERN LATIN AMERICA**

3, 3/0

Movements for independence; early political apprenticeship; age of dictators; nationalism and national development; Hispanic-American interrelations; growth of inter-American system; Latin America in world politics; revolution of rising expectations, guerrilla movements, turmoil in Central America; contemporary problems. Offered occasionally.

**HIS 315 HISTORY OF CLASSICAL AND MEDIEVAL THOUGHT**

3, 3/0

Early Western intellectual tradition and the interaction of various modes and traditions of intellectual discourse (music, literature, history, philosophy, natural science) and their impact. Dynamics of cultural development and the influences that have shaped Western civilization. Offered occasionally.

**HIS 316 HISTORY OF MODERN CANADA**

3, 3/0

The history of Canada since Confederation in 1867. Topics include Canadian political and social history in the modern age, Canada's foreign policy since Confederation, Canada-U.S. relations, Quebec nationalism, twentieth-century Canadian cities, multiculturalism in modern Canada. Offered occasionally.

**HIS 317 HISTORY OF RUSSIA TO 1917**

3, 3/0

Social, political, and economic history of Russia from the Varangians state to the October 1917 Revolution. Effects of geographic locations. The Mongol conquest. Retarded reorientation toward the West in the eighteenth and nineteenth centuries. Participation in world politics. Expansion in Europe and in the East. Participation in World War I. Offered occasionally.

**HIS 318 HISTORY OF THE FORMER SOVIET UNION**

3, 3/0

Economic and historical forces behind the Communist Revolution of 1917. The governmental system and its political, social, and economic theories. The evolving economic system. Soviet foreign policy, impact of the Revolution, and World War II. The church, educational systems, and other cultural developments. Offered occasionally.

**HIS 319 COLONIAL HISTORY OF THE AMERICAN PEOPLE**

3, 3/0

Establishment and development of English, Spanish, French, Dutch, and Swedish colonies in North America. American Revolutionary period. Colonial influence on early culture and institutions of the United States. Subsequent contributions to the American heritage. Offered occasionally.

**HIS 320 MODERN HISTORY OF JAPAN AND KOREA**  
3, 3/0; NW14

Prerequisites: Upper-division status or permission of instructor. History of Japan and Korea from the premodern era to the present. Topics include Tokugawa Japan; the Meiji Restoration; the Meiji state and the rise of Japanese imperialism; Japan and World War II; economic and political developments in postwar Japan; late Yi (Choson) dynasty Korea; the era of Japanese colonialism in Korea; the emergence of modern Korean nationalism; the Korean War; and postwar developments in North and South Korea. Offered occasionally.

**HIS 321 HISTORY OF MEDIEVAL EUROPE**

3, 3/0

Transition from Graeco-Roman to medieval civilization; Islam, Charlemagne, and feudal Europe; crusades; cultural, economic, and political revival of the twelfth-century medieval church and papacy; medieval intellectual synthesis; rise of monarchies, decline of papacy; decline of medieval civilization. Offered occasionally.

**HIS 322 AFRICAN AMERICAN HISTORY**

3, 3/0; DI14

Heritage of black Americans. African Americans' existence under slavery; their role in influencing historical events; activity in the Civil War period; freed men during reconstruction; migrations to the north and adjustment to urban life. African American leaders, institutions, and ideas, and their impact on modern America. Offered occasionally. Equivalent Course: AAS 322

**HIS 323 CLASSICAL GREECE AND ROME**

3, 3/0

Origins and development of ancient Greece, the Hellenistic world, and the Roman republic and empire. Emergence and growth of major cities, the evolution of social and political institutions, trade and economic development, technological innovation; philosophy and religion. Offered occasionally.

**HIS 324 AMERICAN PRESIDENTS**

3, 3/0

Biographical approach to the study of the presidency from Washington to the current era. Background and evolution of the office, and the roles of the best and worst presidents in shaping its powers. Offered occasionally.

**HIS 325 U.S. BUSINESS HISTORY**

3, 3/0

The history of U.S. business and its societal and cultural contexts. Businessmen within mercantilism; merchants and craftsmen in the early republic; business and government action in the North and South; industrialization; rise of corporations and antitrust; business, government, and science; managerial style; advertising; the multinational; Rust Belt and Sun Belt; high tech society.

**HIS 326 HISTORY OF THE GREAT LAKES REGION**

3, 3/0

The history of the Great Lakes. Introduction to the variety of natural, social, and political factors that have shaped the region. Offered occasionally.



### HIS 327 COLONIAL LATIN AMERICA

3, 3/0

Encounter between Europe and the New World; establishment of the political, social, cultural, and religious institutions of the Spanish and Portuguese in the Americas between 1492 and 1824. Role of the church, economic institutions, women, slaves, and Indians in further understanding the cultural and political heritage of the region. Offered occasionally.

### HIS 328 HISTORY OF POLAND

3, 3/0

Prerequisites: upper-division status. Major Polish historical and cultural achievements from 966 to the present. The growth and development of the nation and the state. Scientific, cultural and religious forces in Polish life. The interaction of Poland with neighboring states and cultures, and Poland's role in world affairs. Offered occasionally.

### HIS 330 U.S. ENVIRONMENTAL HISTORY

3, 3/0

The impact of Americans on their natural environment. The influence of the natural and developing social environment on Americans in the past. Aborigines and the earliest settlers. Establishment of patterns and institutions. Preservationists vs. conservationists, 1860-1940. The modern environmental movement, 1940-present. Offered occasionally.

### HIS 331 AMERICAN WESTWARD EXPANSION

3, 3/0

The gradual westward migration of Americans; their patterns of migration and settlement; the natural environment and peoples encountered; the influence of the frontier on the development of American institutions, thought, and the American personality. Offered occasionally.

### HIS 332 TECHNOLOGY AND U.S. HISTORY

3, 3/0

Interaction of U.S. society with technology in the past, concentrating on the last 200 years. Background of Western technology; the agricultural revolution; industrial technology; technology and culture, labor, the home, medicine, government; postindustrial technology. Offered occasionally.

### HIS 334 MODERN IRELAND SINCE 1800

3, 3/0

Major factors that shaped Irish history in the nineteenth and twentieth centuries: the impact of the union with Britain; the struggle for Catholic emancipation; the Great Famine and its aftermath; revolutionary movements like Young Ireland, the Fenians, and Sinn Fein; cultural revival and religion in Victorian Ireland. Also the question of home rule and independence, the growth of the free state and the establishment of the Northern Ireland state, Ireland in World War II, and the emergence of contemporary Ireland in the context of the European economic community. Offered occasionally.

### HIS 335 HISTORY OF MEXICO

3, 3/0

Pre-Colombian Indian cultures, Spanish conquest of Mexico, Spanish colonial administration in the Viceroyalty of New Spain, the Enlightenment and Mexican independence, Early National period, the Mexican Revolution of 1910, Mexico today. Offered occasionally.

### HIS 336 HISTORY OF EARLY MODERN IRELAND

3, 3/0

A focus on the political, economic, and social histories of Ireland in the Early Modern period, ca.1485-1800. An overview of the development of the Irish state, its constituent communities, and relations with England and the British mainland up to the union of 1800. Emphasis is placed on what it meant to "be Irish" in the Early Modern period, and how varying definitions of "Irishness" have affected Ireland's cultural and political history. Reading primary sources and leading and participating in discussions are emphasized. Offered occasionally.

### HIS 337 AFRICA SINCE 1800

3, 3/0; NW14

African history since 1800. Abolition of the slave trade, pre-colonial culture and society, partition of Africa by European nations, impact of colonial regimes, African resistance movements, colonial nationalism, world wars and decolonization, Apartheid in South Africa, impact of the Cold War, and neo-colonialism. Offered occasionally.

Equivalent Course: AAS 337

### HIS 338 MODERN HISTORY OF CHINA

3, 3/0; NW14

Prerequisite: Upper-division status. The history of China from the rise of the last imperial dynasty (Qing) in the mid-seventeenth century to the present. Topics include the fall of the Ming dynasty and the Manchu conquest of China, the Chinese state and society under the Qing dynasty, the development of relations between China and the West, the decline of the Qing imperial order, the emergence of modern nationalism and the rise of the Chinese Communist Party, Japanese imperialism and World War II, and the establishment of the People's Republic of China. Offered occasionally.

### HIS 339 HISTORY AND CULTURE OF PUERTO RICO

3, 3/0

Prerequisites: Upper-division status or permission of instructor. Over 500 years of Puerto Rico's history, culture, people, resources, ethnicity, socio-economic, and socio-political development prior to, during, and after colonization, including the relationship between Puerto Rico and the United States. Optional capstone travel to Puerto Rico will include lectures, guided tours, and firsthand experiences complementing the classroom experience. Offered every other spring semester.

### HIS 340 HISTORY OF THE BUFFALO NIAGARA REGION

3, 3/0

The nature of the city, its growth, the dynamics of urban development, the enduring impact of its historical past in relation to its geographical presence. A case study of Buffalo. Offered occasionally.

### HIS 341 AFRICAN AMERICANS AND CIVIL RIGHTS

3, 3/0

History of the landmark court decisions, laws, and governmental policies regarding the civil rights of African Americans. The course examines some of the historic relationships among race, racism, law, and public policy in America. Focuses on resistance, protest, and the quest for equality in America. Offered occasionally.

Equivalent Course: AAS 341

### HIS 342 ENGLISH LEGAL HISTORY

3, 3/0

Origins of English law to 1066, growth of medieval common law, common law and its rivals in sixteenth and seventeenth centuries, consolidation and reform of law and courts, relation of law and equity, criminal and civil jurisdiction and procedure, the legal profession, changing legal concepts and the modern state. Offered occasionally.

### HIS 343 INTRODUCTION TO AMERICAN LEGAL HISTORY

3, 3/0

Origins of ideas of law; English background of American law; colonial legal history; Puritanism, law, and social goals; revolution; criminal and civil jurisdiction and procedure; 19th century codification movements; nationalism and the law; industrialization; corporations, legal profession, social change, and the law in the 19th and 20th centuries.

### HIS 344 EMERGENCE OF INDUSTRIAL AMERICA: 1877 to 1919

3, 3/0

Conservative reaction to reconstruction, decline of the presidency, the triumph of capitalism and industry, populist protest, the end of westward movement, socialization of immigrants, progressive impulse and leadership, rural vs. urban conflict, the United States and the race for empire, and the role of America in World War I. Offered occasionally.

### HIS 345 HISTORY OF THE UNITED STATES SINCE 1941

3, 3/0

Political, diplomatic, social, and cultural history of contemporary America; World War II and the advent of the nuclear age; the Cold War and the policy of containment; the Korean War, McCarthyism, and domestic reform; the New Frontier and the Great Society; civil rights, civil disobedience, and the greening of America; war and peace in Southeast Asia; Watergate and the travail of liberalism. Offered occasionally.

### HIS 347 POLITICS AND HISTORY OF MODERN TERRORISM I

3, 3/0

Prerequisites: Upper-division status or permission of instructor. Politics and history of terrorism from the French Revolution until the end of the Cold War. The first of a two-part course sequence. Broad definitions of terrorism including tyrannicide, state terror, and counterinsurgency. Narrow definitions do not include state actors. Questions of geopolitical, socioeconomic and cultural causation. Current methodology and empirical research of terrorism. Typology of terrorism including historical analysis of racist, nationalist, anarchist and socialist organizations. Focus on controversies about state response regarding legal rights, proceedings, and immigration. Addressing political, social and cultural issues. Offered annually each fall semester. Offered annually each fall semester.

Equivalent Course: PSC 338

### HIS 348 POLITICS AND HISTORY OF MODERN TERRORISM II

3, 3/0

Prerequisites: Upper-division status or permission of instructor. History and politics of terrorism from the Cold War until today. The second of a two-part course sequence. Definitions of terrorism. Questions of geopolitical, socioeconomic and cultural causation. Current methodology and empirical research of terrorism. Typology of terrorism. Focus on controversies about state response regarding legal rights, proceedings, immigration and addressing political, social and cultural issues. Offered annually each spring semester.

Equivalent Course: PSC 339

### HIS 350 LEFT AND RIGHT IN EUROPEAN HISTORY

3, 3/0

The evolution of Marxist, anarchist, state socialist, and right radical ideologies in European thought and politics. Offered occasionally.

### HIS 351 MODERN FRANCE

3, 3/0

Selected problems in French political, social, economic, and diplomatic history emphasizing historiography and interpretation of such periods as the restored monarch, the revolution of 1848, the Second Empire, the Third Republic, and its successors. Offered occasionally.

### HIS 353 THE EARLY CARIBBEAN

3, 3/0

Prerequisites: CWP 102. An introduction to the first three centuries of written history in the Caribbean from Europeans' first contact with the region's indigenous societies to the flourishing of the late eighteenth-century sugar colonies of Saint Domingue and Jamaica. Topics will include: indigenous societies; the first encounters between Europeans and the indigenous; trade, contraband, and piracy; the development of the transatlantic slave trade and the plantation complex; centuries-long conflict between Caribs and Europeans; revolts, rebellions, and disaster. Offered every other year.

### HIS 354 THE MODERN CARIBBEAN

3, 3/0

Prerequisite: CWP 102 or equivalent. Introduction to the conundrums of freedom, independence, and sovereignty as experienced in the modern Caribbean. Topics will include the Haitian Revolution; abolitionism and emancipation; labor conflicts between freedpeople and planters; race, religion, and imperialism; American expansionism and occupation; decolonization, departmentalization, and independence; globalization and nonsovereignty; contemporary politics and society.

Equivalent Course: AAS 354

### HIS 355 HISTORY AND CULTURE OF ARGENTINA

3, 3/0

History of Argentina from the time of colonial rule until the return of democracy in the 1980s. Cultural foundations of the nation; role of gauchos and caudillos; challenges of nation building in the nineteenth century. Rise and endurance of Peronism in Argentine politics. Military dictatorships of the 1970s and 1980s; transition to democracy in 1983. Offered occasionally.

### HIS 356 WORLD WAR I

3, 3/0

The causes, conduct, and implications of the First World War. Through a thematic and narrative treatment, students will study the war and its implications for global society in the twentieth century and beyond. Offered occasionally.

### HIS 357 WORLD WAR II

3, 3/0

The issues that led to the outbreak of the Second World War and its global dimensions. Campaigns, theaters of operations, as well as the process of decision making by Allied and Axis Powers. Also, the social dimensions of the war: experiences on the home fronts, the Holocaust, and the impact of the war on the modern world. Offered occasionally.

### HIS 358 HISTORY AND CULTURE OF PARAGUAY

3, 3/0

Prerequisites: Upper class standing. Paraguay's pre-contact cultures and societies, isolated colonial era, the dramatic War of the Triple Alliance, the Chaco War, securing the vast Chaco region and the longest dictatorship in the hemisphere of Alfredo Stroessner. Offered occasionally.

### HIS 359 GERMANY AND CENTRAL EUROPE, 1618-1918

3, 3/0

History of Central Europe from the Thirty Years' War to the twentieth century. Political and cultural development of the modern German nation-state from nationalist dream to the Second Reich in the nineteenth century. Offered occasionally.

### HIS 360 GERMANY AND HITLER

3, 3/0

Political, cultural, and social developments since the Reformation; Prussian kings and German emperors; nationalism and unification; Hitler's Austria; World War I; the challenge of democracy; the Nazi dictatorship; World War II; Germany after Hitler. Offered occasionally.

### HIS 361 HISTORY AND CULTURE OF BRAZIL

3, 3/0

Prerequisites: Upper class standing. Brazil's Indigenous population and culture before Columbus. How Europeans, Africans and Indigenous populations experienced colonialism, Empire and republicanism. Brazil evolves from an exporter of primary commodities to industrialization. Women and minorities' struggles for political equality and economic survival. How Brazil became a global powerhouse in the 21st century. Offered occasionally.

### HIS 362 THE WAR OF 1812

3, 3/0

Prerequisites: upper-division status. The causes, conduct and implications of the War of 1812. Thematic and narrative treatment of the war and its implications for the history of North America in the 19th century and beyond; the emergence of the United States as a hemispheric power; the future of Canada-US relations. The war as an aspect of 19th century British imperial history; impact on North American Indigenous Peoples. Offered occasionally.

### HIS 363 AMERICAN IDENTITY IN TRANSITION: DIVERSITY AND PLURALISM IN THE UNITED STATES

3, 3/0; DI14

The diverse, pluralistic makeup of American society. The roots of pluralism and what it means for the daily experience of living in America. Themes of diversity are explored through history and literature. Focuses on the activities of four major underrepresented groups in their struggle for liberation: African Americans, Native Americans, Latinos, and Asians. Encourages a multicultural view of America. Offered occasionally.

Equivalent Course: SSE 363

### HIS 365 AMERICAN LABOR HISTORY

3, 3/0

Readings and bibliography on the role of workers in American life. Slaves, indentured servants, wage earners, and craftsmen. The rise of organized labor from colonial times. The history of the Knights of Labor, the American Federation of Labor, the Congress of Industrial Organizations, and independent unions, with related issues of immigration, radicalism and political action, and contemporary labor problems. Offered occasionally.

### HIS 366 MEDIEVAL AND EARLY MODERN BRITAIN

3, 3/0

The development of English and Scottish political identities prior to their union, and the eventual formation of the British state in 1707. Also, considerations of the roles of the church, family life, social structure, culture, economics, immigration, and war as facets of these formative periods. Offered occasionally.

### HIS 367 MODERN BRITAIN

3, 3/0

The modern history of the British Isles, from the Act of Union of 1707 to the end of the twentieth century. Considerations of the roles of the church, family life, social structure, culture, economics, immigration, industrialism, imperialism, and war as facets of these formative periods. Offered occasionally.

### HIS 370 AMERICAN DIPLOMATIC HISTORY TO 1898

3, 3/0

Independence from Britain and alliance with France; the Constitution and the formation of foreign policies; neutral rights and war with Britain; rise of manifest destiny, commercial and territorial expansion, diplomacy of slavery and the Civil War; diplomacy and isolationism in the post-Civil War period. Offered occasionally.

### HIS 371 AMERICAN DIPLOMATIC HISTORY SINCE

1898

3, 3/0

War with Spain and the rise to world power; inter-American and Far Eastern relations; diplomacy of World War I; retreat to isolationism; road to World War II; global war and its aftermath; leadership in the United Nations and the Cold War; inter-American and Far Eastern affairs. Offered occasionally.

**HIS 372 AMERICAN FOREIGN POLICY IN THE FAR EAST**

3, 3/0

Dawn of America's Asiatic interests; early relations with China; opening of Japan; missionary activity and influence; war with Spain; America becomes a Pacific power; World War I and the rise of Chinese nationalism; American gunboat diplomacy; interwar naval conferences; Manchurian Incident; American-Japanese problems; road to war; Pearl Harbor and war in the Pacific; search for Pacific security; conflict in Korea; war and peace in Vietnam. Offered occasionally.

**HIS 373 VIETNAM AND THE VIETNAM WAR**

3, 3/0

Introduction to the major issues associated with the history of Vietnam and modern Vietnam's wars with France and the United States. Origins and historical development of Vietnamese society and culture; French colonialism and the emergence of modern Vietnamese nationalism; Vietnamese communism under Ho Chi Minh; the Franco-Vietnam War; the American war in Vietnam; and postwar reunification and consolidation under the Vietnamese Communist Party. Offered occasionally.

**HIS 375 HISTORY OF BYZANTINE EUROPE**

3, 3/0

The history of the Byzantine Empire. Its influence on intellectual and cultural progress in Western Europe and among the Eastern and Balkan Slavs with special emphasis on internal, social, economic, political, and cultural developments. Offered occasionally.

**HIS 379 MUSEUM AND CIVIC ENGAGEMENT**

3, 3/0

In-depth study of how museums and cultural agencies define community identity. Internal operations of museums and cultural agencies. Minimum 20 hours in-service (fieldwork) activity required, with 15 percent of the grade dependent upon the resulting learning from that service. Offered occasionally. Equivalent Course: MST 379

**HIS 380 INTRODUCTION TO THE MUSEUM**

3, 3/0

History, theory, and practices of the historical agency or museum. Extensive reading, illustrated lectures, and exercises in museum and historical-agency problems. Field trips to area museums and agencies. Offered occasionally.

**HIS 381 THE ROLE OF THE HISTORY MUSEUM**

3, 3/0

Theory and practice of historical investigation and publication. Uses and procedures of research in historical museums and agencies. Evaluation of source materials. Preparation of historical essays and exhibits. Offered occasionally.

**HIS 382 HISTORY OF CHRISTIANITY TO 1500**

3, 3/0

Prerequisites: junior or senior status. Christianity in the East and the West from its origins to the dawning of the modern age. Development of Christianity, the Apostolic Era, the Patristic Era; Byzantine and medieval Latin Christianity until the fall of Constantinople and the Protestant Reformation. Political, intellectual and cultural significance of Christianity in world civilizations. Offered occasionally.

**HIS 383 HISTORY OF CHRISTIANITY FROM 1500 - PRESENT**

3, 3/0

Prerequisites: junior or senior status. Developments in Christianity in the Modern World from the collapse of the Byzantine Empire in the East and from the Protestant Reformation in the West through the twenty-first century. Challenges of Christianity with respect to the Scientific Revolution, the Enlightenment, liberalism, nationalism, socialism, capitalism and the Industrial Revolution, secularism, consumerism, and globalization. Offered occasionally.

**HIS 385 AZTEC AND MAYA HISTORY**

3, 3/0

The history of the Aztec and Maya empires in Mexico and Central America before and during the Spanish conquest. The political, economic, and religious motivations for empire building among indigenous cultures. Construction of rulership; Aztec and Maya historiography; systems of trade and tribute; imperial expansion; war and sacrifice; encounter with the Spanish. Offered occasionally.

**HIS 386 HISTORY OF THE INCA EMPIRE**

3, 3/0

The last great empire of the ancient Americans to fall under Spanish dominance, the Inca of Peru. The political, social, and economic functions of the Inca State. The foundations of the empire in earlier civilizations of the Andes. Inca system of governance; strategies for expansion and consolidation of empire; the importance of recordkeeping and the counting device known as quipu; the function of textiles and their production; the role of ancestors and myths in state formation and function; new perspectives on the Spanish conquest. Offered occasionally.

**HIS 389 HISTORICAL PERSPECTIVES (TOPICS)**

3, 3/0

Examination of themes and unique developments in history that stand apart from the normal pattern; analytical and historiographical approach to such topics and phenomena as reform and reaction in American life; impact of ideology in European relations; clash of tradition and modernization in Asia; rise of nationalism in Latin America; emergence of a third world. Emphasis on class discussion of assigned materials and oral and written reactions to readings. Offered occasionally.

**HIS 400 SENIOR SEMINAR IN HISTORY**

3, 3/0; CT14, IM14, WIIF

Prerequisites: Senior standing; HIS 399 for history majors. Readings, discussion, and research on selected problems in history, which results in a substantial research paper. Fulfills seminar requirement for history majors and secondary social studies majors. Offered every semester.

**HIS 401 TWENTIETH-CENTURY EUROPEAN DIPLOMACY**

3, 3/0

Causes and diplomatic problems of World Wars I and II; the Paris Peace Conference and interwar diplomacy; peacemaking in the Cold War era; the European movement; Gaullism and its consequences. Offered occasionally.

### HIS 402 THE ITALIAN RENAISSANCE

3, 3/0

History, politics, culture, and thought of the Italian Renaissance, its achievements, and its impact on European and world civilizations. Development and contributions of humanism and on the distinctive cultural worlds of Florence, Milan, Naples, Venice, and Rome. Offered occasionally.

### HIS 404 THE SOUTH SECTIONALISM, AND THE CIVIL WAR

3, 3/0

The structure of the American south; sectional development and states' rights; slavery; the development of antislavery agitation and reform; the rise of Lincoln and the division of political parties; Civil War and the military; constitutional and diplomatic crises; economic and social impact of the war; reconstruction of the Union. Offered occasionally.

### HIS 405 REFORMATION

3, 3/0

Impact of the Renaissance and Reformation on intellectual, artistic, economic, and political development of Europe; social and religious problems; humanism, secularism, classicism, individualism in Italy and Northern Europe; Protestant reform and reformers; Catholic Reformation. Offered occasionally.

### HIS 406 THE FRENCH REVOLUTION AND NAPOLEON

3, 3/0

Political, social, economic, and intellectual fabric of the Old Regime; the Revolution; dictatorship of Napoleon and spread of revolutionary ideas; rise of modern nationalism. Offered occasionally.

### HIS 407 THE TEACHING OF HISTORY

3, 3/0

The curriculum and practice of teaching history, the historical perspective on the role of history in the social studies, and the political uses of the teaching discipline. Research foundation of historical meaning for instructional practice links material presented in various content and pedagogical courses in the program. Offered occasionally.

Equivalent Course: SSE 407

### HIS 408 HISTORY OF AMERICAN THOUGHT

3, 3/0

Sources of major bodies of thought and ideas in American history; their impact upon American culture; the role ideas have played in producing a distinctive culture. Offered occasionally.

### HIS 412 HISTORY OF EAST CENTRAL EUROPE

3, 3/0

Social, political, and economic history of the Baltic States, Western Slavdom, and the Balkan peninsula; struggle of Eastern and Western civilizations; competition of the great powers for the domination of this area and the role of these peoples as Russian satellites. Offered occasionally.

### HIS 413 LATIN AMERICAN ENVIRONMENTAL HISTORY

3, 3/0

Prerequisites: Upper Division status or Instructor Permission. How humans have shaped the landscape, water, and air of Latin America. Pre-Columbian farming. Mining in Mexico and the Andes, deforestation, pollution of rivers and waterways for commodities. European livestock in the region and environmental degradation. Urbanization and ecotourism in Latin America.

### HIS 415 HISTORY AND GOVERNMENT OF NEW YORK STATE

3, 3/0

Aboriginal background; development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; current economic and social growth. Offered occasionally.

### HIS 418 FOOD AND GLOBAL HISTORY

3, 3/0

How food has influenced human society from hunter-gatherer societies to the present. Food rituals, famines, food and spice trade, national identity. How cultures from Asia, Africa, Europe, and the Americas understood their relationship to food. Offered occasionally.

### HIS 419 CURATORSHIP

3, 3/0

Principles and techniques of collection and care of museum collection: the library, collections, audiovisual materials, archives, iconography, and historic sites; development of professional expertise in curatorship. Offered occasionally.

### HIS 420 ADMINISTRATION OF THE HISTORICAL AGENCY OR ART MUSEUM

3, 3/0

Principles and practice of administration of museums. Problems of organization, collection, exhibition, public services, finance, special public relations, and trustee relations. Experience in the area of interpretation. Offered occasionally.

### HIS 422 TUDOR AND STUART ENGLAND

3, 3/0

Henry VII and the new dynasty; religion and politics under the early Tudors; the age of Elizabeth I; the Stuarts and the Puritan revolt; restoration and revolution; limiting the monarchy and establishing the empire. Offered occasionally.

### HIS 425 MUSEUM PRESERVATION AND PRACTICE

3, 3/0

Acquaints students who are non-conservation specialists with conservation principles of museum collections. Environmental, handling, and procedural issues; lecture, demonstrations, and practical work; examine exhibition and storage facilities at local institutions. Offered occasionally. Equivalent Course: MST 425

### HIS 430 UNITED STATES: THE NEW NATION

3, 3/0

The United States following the American Revolution through Andrew Jackson's administration; federal authority, political parties, industrial and sectional economic development during a period of territorial, social, and diplomatic transformation; the formative and foundational structure of American society during the periods of Washington, Jefferson, and Jackson. Offered occasionally.

### HIS 440 THE HOLOCAUST

3, 3/0

Persecution and murder of Jews and other victims of Nazi genocide. Historical anti-Semitism, the personality of Adolf Hitler, the traumas of Weimar Germany, birth and rise of the Nazi party, persecution and extermination of Jews, non-Jewish victims, the death camps, Jewish resistance, and world reaction to Nazi policies. Offered occasionally. Offered occasionally.

**HIS 445 HISTORY OF WOMEN AND GENDER IN THE MIDDLE EAST**

3, 3/0; NW14

History of women and gender in the Middle East from Muhammad to present. Women and gender in the formation of Islam, medieval caliphates, and Islamic empires. Historical role of modernization, and colonization on early Middle Eastern feminist movements. The end of empires and influence of nation-building on social relations.

**HIS 447 NINETEENTH CENTURY EUROPEAN INTELLECTUAL HISTORY**

3, 3/0

Prerequisites: Upper-division status. European intellectual history 1789-1914. Topics include political and artistic responses to the French and Industrial revolutions; romanticism, liberal-democratic nationalism, and utopian socialism; the failed revolutions of 1848; modernism and realism in the arts; positivism in philosophy; conservative nationalism and scientific socialism; Darwin and Social Darwinism; the new imperialism and its critics, 1880-1914; racism, radical nationalism, political anti-Semitism; the Second International and syndicalism; the revolt against positivism and realism in philosophy and the arts; the birth of modern sociology. Offered occasionally.

**HIS 448 TWENTIETH CENTURY EUROPEAN INTELLECTUAL HISTORY**

3, 3/0

Prerequisites: Upper-division status. Main currents of European intellectual and cultural life from 1914-2001. Topics include psychoanalysis; intellectual and cultural responses to World War I, the Russian Revolution and the rise of fascism; Critical Theory, existentialism, feminism and postmodernism; decolonization and the protest movements of the 1960s; the Cold War and the collapse of the Soviet communism; globalization, immigration and the new multicultural Europe. Offered occasionally.

**HIS 450 MUSEUM INTERNSHIP**

3-6, 0/0

For students interested in gaining practical experience in museum work. Assignment to a particular museum is based on a student's major-related disciplines. Students in areas such as history, anthropology, art history, education, and the natural sciences are eligible. Offered occasionally.

Equivalent Course: MST 450

**HIS 460 PATTERNS OF HISTORY IN SOUTHEAST ASIA**

3, 3/0

Examination of key topics in the social and political history of the principal regions of Southeast Asia. Primary emphasis on the cultural heritage and political origins of the major modern Southeast Asian nations. Myanmar (Burma), Thailand, Malaysia, Cambodia, Vietnam, Indonesia, Singapore, and the Philippines. Offered occasionally.

**HIS 465 IMPERIALISM IN THE 19TH AND 20TH CENTURIES**

3, 3/0; NW14

Imperialism in Asia and Africa through decolonization. Political and economic motives for acquiring colonies. Historiography of imperialism. Colonial administration and economic exploitation. Role of missionaries. Colonial culture and society. Women and imperialism. Collaboration, complicity, and resistance among indigenous peoples. Colonial nationalism and decolonization. Offered occasionally.

**HIS 466 DRUGS AND GLOBAL HISTORY**

3, 3/0

Prerequisites: Upper division status or Instructor Permission. Research seminar on the history, culture, and sociology of drug consumption including food drugs such as coffee, tea and yerba maté. Cultural uses of drugs and their rejection or acceptance in society. How drug commodities have influenced human migration patterns and global economics. Offered occasionally.

**HIS 468 READINGS IN AFRICAN AMERICAN HISTORY**

3, 3/0

The major historical writings on selected periods and topics in African American history. Readings, discussions, and writing book reviews and biographical essays. Offered occasionally.

Equivalent Course: AAS 468

**HIS 469 BLACK PROTEST AND LEADERSHIP IN THE UNITED STATES IN THE TWENTIETH CENTURY**

3, 3/0

The black protest movements and leaders in twentieth-century America. Offered occasionally.

Equivalent Course: AAS 469

**HIS 477 TALES OF THE CITY: A TELEVISUAL INTRODUCTION TO URBAN HISTORY**

3, 3/0; WIIF

Prerequisites: Upper-division status or instructor permission. Introduction to the methodologies and questions of urban history and the crisis of American cities through discussion of readings and television depictions of urban change. Culminates in a substantial research paper that investigates Buffalo's urban history. Offered occasionally.

**HIS 480 DIGITAL MUSEUM COLLECTIONS**

3, 3/0

Digital technology enables museums to make their collections more accessible. Students investigate what is involved in digitizing museum objects through classroom instruction and a class project. To balance theory with practice, students work as a group to develop their own digital collection. Course is taught at Buffalo State College and a local cultural institution. Offered occasionally.

Equivalent Course: MST 480

**HIS 488 INTERNSHIP**

1-12, 0/0

Background of courses or experience within the area of interest; 6 credit hours of lower-division major courses; 6 credit hours of history and social studies education coursework at the upper-division level; minimum cumulative GPA of 2.5 (overall and in major coursework); approval of student adviser and department chair. Internships provide students with guided, supervised field experiences that complement the academic program. Offered occasionally.

Equivalent Course: SSE 488

**HIS 490 SENIOR SEMINAR IN HISTORIOGRAPHY**

3, 3/0; CT14, IM14, WIIF

Acquaints history and social studies education majors and others with great works of historic literature in the Western and other traditions. Introduction to the development of historical writing from ancient times to the present. Students are encouraged to assess sources that have been used to record the past and to examine the various methodologies employed by historians in studying the past. Offered every semester.

### HIS 495 SPECIAL PROJECT

1-3, 0/0

Offered occasionally.

### HIS 497 SPECIAL WORKSHOP

1, 0/0

Offered occasionally.

### HIS 498 HONORS RESEARCH

1-9, 0/0

Prerequisite: Completion of 12 credit hours in the history honors program. An advanced research course for students in the history honors sequence. Offered occasionally.

### HIS 499 INDEPENDENT STUDY

3, 0/0

Offered occasionally.

## Hospitality and Tourism (HTR)

### HTR 100 MULTICULTURAL FOODS

3, 1/2

Cultural overview of the foods and food habits of selected groups. Common foods, meal patterns, special-occasion foods, and the role of food in society. The impact of the groups on the American lifestyle. Offered fall, spring and summer only.

### HTR 110 INTRODUCTION TO HOSPITALITY AND TOURISM

3, 3/0

Overview of the hospitality-tourism industry: hotels, resorts, tourism and travel, convention management, casinos and gaming, food service (commercial and noncommercial), and culinary arts. Emerging trends in the industry and available career opportunities. Offered fall, spring and summer only.

### HTR 200 SANITATION AND SAFETY IN FOOD SERVICE

3, 3/0

Causes of and conditions leading to food-borne illnesses. Evaluation of potential hazards of food service operations and measures to control them. Students take the SERVSAFE sanitation certificate examination, offered by the National Restaurant Association's Educational Foundation, at the end of the course. Offered fall and J Term only.

### HTR 300 FOOD AND BEVERAGE MANAGEMENT

4, 1/6

Prerequisite: HTR 110. Students work at Campus House, the hospitality training facility. Students are required to apply various food production, purchasing, and sanitation principles while participating in labs. Emphasis on preparing high-quality products and providing high-quality service. Offered fall, spring and summer only.

Equivalent Course: NFS 300

### HTR 305 APPLIED CULINARY ARTS

3, 2/2

Prerequisite: HTR 110. This course is designed to provide students with the progressive skills and knowledge needed to build on their existing culinary abilities in order to create advanced levels of Haute cuisine. Offered spring only.

### HTR 318 CULTURAL TOURISM

3, 3/0

Prerequisite: HTR 110. A practical approach to understanding regional cultural attractions and the economic impact they have on the community. The course examines the historical context of cultural tourism and the structure of local cultural attractions through guided tours, guest presentations, and participation in the regional cultural tourism efforts. Offered spring only.

### HTR 330 FUNDAMENTALS OF BAKESHOP PRODUCTION

3, 1/4

Prerequisite: HTR 110. Designed to provide students with an overview of bakeshop concepts, which include knowledge base and production skills necessary to create fundamental bakery products. Offered spring and summer only.

### HTR 335 WINE ESSENTIALS

3, 3/0

Prerequisite: HTR 110. A presentation of the origins and history of wines. At the completion of the course, students will have had exposure to winemaking, wine service, and wine tasting. Students will learn to evaluate variations and quality of wines. Offered fall and spring only.

### HTR 340 INDUSTRY EXPERIENCE

3, 1/9

Prerequisites: Completion of CWP 101, CWP 102 and HTR 110; major GPA of at least 2.0. Opportunity to integrate technical knowledge with industry experience in hospitality and tourism enterprises. Supervised field experience, meeting with instructor, and structured written assignments. May be taken for a maximum of six credits. Offered fall, spring and summer only.

### HTR 348 TOURISM AND WORLD TRAVEL

3, 3/0

Prerequisite: HTR 110. Overview of world tourism and travel and the impact of tourism on world trade, geopolitical understandings, and cultural exchange. Introduction to career opportunities in the industry. Offered occasionally.

### HTR 350 COMPUTER APPLICATIONS FOR HOSPITALITY

3, 3/0; IM14, WIIF

Prerequisites: HTR 110. Focuses on computer technology and application in the hospitality industry. Emphasis on computer hardware, available software, and the impact technology has played in the industry. A thorough exploration of Web-based information will enhance real-world applications. Offered fall and spring only.

### HTR 361 PRINCIPLES OF MANAGEMENT IN FOOD SERVICE

3, 3/0

Prerequisite: HTR 110. Application of management principles in food service systems. Offered fall only.

### HTR 365 MENU DESIGN AND DEVELOPMENT

3, 3/0

Prerequisites: HTR 110. A complete study of restaurant menus including historic perspective, the current state of the food service industry, detailed menu analysis, pricing, mechanics, menu production and service. Financial planning and ethical management will also be covered. Offered fall only.

### HTR 368 HOTEL OPERATIONS

3, 3/0

Prerequisite: HTR 110. Organization, function, and management of the rooms and divisions of hotels, resorts, and other lodging facilities; security; facilities management; front-office management. Offered fall and spring only.

### HTR 370 COST CONTROLS IN HOSPITALITY

3, 3/0

Prerequisite: HTR 110 and successful completion of Mathematic and Quantitative Reasoning requirement. Relevant accounting and financial concepts and procedures. Interrelationships between costs and their impact on gross margins and net incomes. Strategies to control fixed and variable costs. Offered fall, spring and summer only. Offered fall and spring only.

### HTR 375 EVENTS MANAGEMENT

3, 2/0

Prerequisite: HTR 110. The best practices in modern event management and the three dimensions of event leadership: event administration, an insider's vocabulary, and industry certification standards. An overview of event projects, new product developments, business meetings, seminars and conferences and exhibitions. Fieldwork opportunities, in special events on campus and off campus. Offered spring and summer only.

### HTR 380 ADVANCED TRAINING IN HOSPITALITY

3, 3/0

Prerequisite: HTR 110. Review of training principles used to design, implement, and evaluate administrative programs for the hospitality industry. Application of theoretical concepts to hospitality-tourism related situations. Offered fall and spring only.

### HTR 385 PRIVATE CLUB MANAGEMENT

3, 3/0

Prerequisite: HTR 110. This course is an in depth study of the private club industry. Emphasis is on club needs assessment, development of programs for members and other audiences, overcoming challenges that external and government agencies pose for managers, golf course maintenance, and capital improvement projects for club and resort facilities. Issues relative to finance and board governance and structure will also be analyzed. Offered fall only.

### HTR 389 TOPICS COURSE

3, 0/0

Offered Occasionally.

### HTR 390 STRATEGIC MARKETING IN HOSPITALITY

3, 3/0

Prerequisite: HTR 110. Relevant principles and concepts of marketing; theories of market segmentation and positions; various theories will be discussed using the analysis approach. Students will be required to develop a marketing plan and analyze hospitality case studies. Price, promotion, and consumer behavior are discussed in detail. Offered fall, spring and summer only.

### HTR 400 CATERING MANAGEMENT

3, 1/4

Prerequisite: HTR 110. Provides students with an understanding of catering principles as well as management experiences through the execution of specially booked functions; opportunities to apprentice in planning, organizing, supervising, preparing, and serving food and beverage for planned catered events. Offered fall and spring only.

### HTR 408 CONVENTIONS, MEETINGS, AND EXPOSITIONS

3, 3/0

Prerequisite: HTR 110. Introduction to the meeting, convention, and exposition industry. The basic framework for planning a meeting, convention, or exposition. Offered fall and spring only.

### HTR 418 TOURISM MANAGEMENT

3, 3/0

Prerequisite: 110. Tourism as a world export industry and its importance to the economy; tourist behavior, motivation, and decision making; the interrelationship of recreation and tourism; the system used to deliver tourism services; and the products and services of the tourism industry. Offered fall, spring and summer only.

### HTR 455 ADVANCED HUMAN RESOURCE MANAGEMENT IN HOSPITALITY

3, 3/0; CT14, WIIF

Prerequisite: HTR 110. Strategies used by the hospitality manager to create a more effective work environment; application of advanced human resource concepts useful in problem solving and decision making in the diverse and competitive hospitality-tourism industry. Offered fall, spring and summer only.

### HTR 468 HOTEL MANAGEMENT

3, 3/0

Prerequisites: HTR 110 and HTR 368. An in-depth look at duties, responsibilities, problems, and opportunities encountered by top management in the lodging industry. This course emphasizes current global issues facing hotel management today, linking advanced theory with real-world problems and solutions. Explores the diversity in management through cultural differences and leadership styles. Offered fall and spring only.

### HTR 470 LEGAL ISSUES IN HOSPITALITY

3, 3/0

Prerequisite HTR 110. Overview of local, state, and federal laws and regulations that promote policies for effective hospitality organizations. Case-study analysis. Offered spring and summer only.

### HTR 480 PRACTICUM IN HOSPITALITY OPERATIONS

4, 1/6

Prerequisites: HTR 300 and senior status. Culminating experience in hospitality administration at Campus House requiring students to apply various theories and concepts learned in previous courses. Students develop marketing, strategic, and financial plans. Offered fall, spring and summer only.

### HTR 485 SEMINAR IN HOSPITALITY

1, 1/0

Prerequisite: Senior status. Investigation of contemporary issues relevant to the hospitality industry. Students research and present topics of their choice and participate in career-related activities. Offered fall and spring only.

### HTR 495 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor and department chair permission, using department forms available in Caudell Hall 207. Offered occasionally.



### HTR 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisite: Instructor and department chair permission, using forms available in the department office. Offered occasionally.

## Humanities (HUM)

### HUM 100 INTRODUCTION TO HUMANITIES

3, 0/0; HU14

Introduction to some central topics in the humanities. Humans' attempts to give meaning to their lives through literary, philosophical, and creative expression. Offered every semester.

### HUM 189 TOPICS

1, 0/0

A project connecting three of the following areas: literature, language, rhetoric, history of the visual and performing arts, history, and philosophy. Offered occasionally.

### HUM 200 THE HISTORY OF RHETORIC

3, 3/0; HU14

Rhetorical theory and practice from Aristotle to the present. Techniques of rhetorical analysis, critical thinking and oral presentation. Offered every semester.

### HUM 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### HUM 389 TOPIC COURSE

3, 0/0

An advanced project examining primary and secondary texts from three of the following areas: literature, language, rhetoric, history of the visual and performing arts, history, and philosophy. Offered occasionally.

### HUM 495 SPECIAL PROJECT

3, 0/0

### HUM 499 INDEPENDENT STUDY

3, 0/0

## Individualized Studies (INS)

### INS 101 LEARNING COMMUNITY INTEGRATED HOUR

1, 1/0

Integral aspect of each learning community; provides students the framework to see connections among seemingly disparate courses and to make connections across disciplines. Faculty and students explore the theme of the learning community, integrate course material, and relate both to their lives outside of the classroom.

Equivalent Course: UNC 101

### INS 120 READING AND STUDY STRATEGIES

1-3, 1/0

Competency-based course designed to emphasize advanced grammar structures, the development of written fluency, improvement of comprehension and vocabulary building. The course will include developing and improving reading and writing strategies through exercises, journal writing, small and large group activities, and formal and informal presentations. Offered each semester.

Equivalent Course: UNC 120

### INS 207 LEARNING IN COLLEGE: ORIENTATION FOR UNDERGRADUATES

3, 3/0

This course supports the academic performance, social development, and persistence of first-year students at Buffalo State. The seminar engages students in meaningful inquiry and activities that develop core cognitive skills such as critical thinking within an academic discipline and develop students' skills that will increase academic success.

Equivalent Course: UNC 100

### INS 295 INTRODUCTORY RESEARCH TOPICS

1-3, 0/0

Prerequisite: Instructor permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### INS 300 ASSESSMENT OF EXPERIENTIAL LEARNING

3, 3/0

Prerequisite: Permission of instructor, matriculated students only. Designed for students who consider personal learning experiences as worthy of college-level credit. Foundations of experiential learning, documentation, verification, and analysis of experiences that may qualify for college credit, and preparation of a professional portfolio to inventory college-level learning gained outside the classroom Not for second-semester seniors.

### INS 389 Selected Topics by Advisement

1-6, 1/0

Prerequisite: Instructor permission and INS major. Analyze and conduct research related selected topics relevant to the Individualized Studies major program. Offered occasionally.

### INS 495 PROJECT

3, 0/0

Research conducted under the supervision of an Individualized Studies faculty member.

### INS 497 WORKSHOP

2-12, 3/0

Workshop format is variable. Topics are based on instructor expertise and workshop is unique each time the course is offered. Check course schedule for title of workshop. Offered occasionally.

### INS 499 INDEPENDENT STUDY

3-15, 0/0

Independent Study and field experience conducted under the supervision of an Individualized Studies faculty member.

## Interior Design (IDE)

### IDE 101 INTRODUCTION TO INTERIOR DESIGN

3, 3/0; AR14

Introductory survey of the theory and practice of interior design. Emphasis is given to the impact of interior space upon the physical, social, psychological, and aesthetic needs of people. Offered fall only.

### IDE 103 DIGITAL PRESENTATION METHODS

3, 2/4

Fundamentals of digital presentation techniques, vector and pixel graphics, desktop publishing, video production, and website design tools augmented by basic research methods, and digital file management. Application of these tools to creative projects. Offered every Fall semester.

Equivalent Course: AAD 104

**IDE 104 ELEMENTS AND PRINCIPLES OF INTERIOR DESIGN**

3, 1/4

Corequisite: IDE 103. Introduction to the elements and principles of space and form as the fundamental vocabulary of interior design. Offered fall only.

**IDE 151 MECHANICAL AND PERSPECTIVE DRAWING**

3, 1/5

Prerequisites: IDE 101, IDE 103, IDE 104. Corequisites: IDE 152, IDE 153. Studio exploration of architectural drafting conventions and the methods to produce mechanically generated descriptive drawings, including orthographic, isometric, and perspective drawings. Skills are utilized in practical application and collaboration with the IDE 151 and IDE 153 studios. Offered spring only.

**IDE 152 INTRODUCTION TO COLOR RENDERING**

3, 1/5

Prerequisites: IDE 101, IDE 103, IDE 104. Corequisites: IDE 151, IDE 153. Studio introduction to interior design problem-solving processes, design analysis techniques, conceptual ideation, and spatial studies utilizing communication methods in various two-dimensional media. Offered spring only.

**IDE 153 SPATIAL EXPLORATIONS AND MODEL BUILDING**

3, 1/5

Prerequisites: IDE 101, IDE 103, IDE 104. Corequisites: IDE 151, IDE 152. A series of small experimental projects introduce, explore, and apply three-dimensional design elements and principles to the creation and representation of the built environment and interior design problems. Different media methods of building sketch, study, and scale models are introduced as tools for designing and producing spatial representations. Offered spring only.

**IDE 155 FUNDAMENTAL SKILLS OF INTERIOR DESIGN**

3, 2/0

Prerequisites: IDE151, IDE152, and IDE153 or, for transfer students, prior interior design course credit with portfolio review by advisement. Studio exploration of small projects in mechanical and perspective drawing, color marker rendering and rapid ideation, model making and spatial exploration, and digital presentation methods. Projects will reinforce elements and principles of interior design and design theory. Offered every summer.

**IDE 189 TOPIC COURSE**

1-3, 0/0

IDE 189

**IDE 201 INTERIOR DESIGN I**

3, 1/5

Prerequisites: IDE 151, IDE 152, IDE 153, successful completion of the skills competency exam and minimum cumulative GPA of 2.6. A series of small experimental projects explores how two-dimensional and three-dimensional design elements and principles are applied specifically to interior design problems. Concept design, development, and articulation are emphasized and represented through the use of sketches, mechanical drawings, and perspective tools, as well as models. Skills and knowledge are utilized in practical application and collaboration with IDE 202. Offered fall only.

**IDE 202 CONSTRUCTION FUNDAMENTALS I**

3, 3/0

Investigation of basic construction systems and materials related to the built environment. Covers the principles of structure and behavior (engineering principles) and enclosures and aesthetics (architectural design principles). With increasing specificity, material properties affecting installation and appearance are observed and knowledge is utilized in collaborative studio projects. Materials that are examined include wood, concrete, stone, metal, synthetics, and glass. Offered fall only.

**IDE 203 FURNITURE THEORY AND APPLICATION**

3, 3/0

Exploration of the furniture elements found within interior design; the interrelation of construction, strength of materials, and styles; and how modern-day furniture, theory, and applications have been influenced by and have evolved due to mass production, material development, and ergonomics.

**IDE 204 BUILDING MATERIALS - SELECTION, SPECIFICATIONS, AND ESTIMATING**

3, 1/4

Prerequisites: IDE 151. The study of a) interior finishes, materials, and various interior components; b) professional specification, code restrictions, and environmental concerns of materials that are required to choose an appropriate material; and c) understanding and creation of estimates and budgets for materials and products in a design project. Offered every spring.

**IDE 205 HISTORY OF INTERIOR DESIGN AND ARCHITECTURE I**

3, 3/0; WC14

A comprehensive survey of the major historical periods of architecture and interiors from antiquity to the advent of the Industrial Revolution.

**IDE 251 INTERIOR DESIGN II**

3, 1/5

Prerequisite: IDE 201. Small- to medium-scale residential projects facilitate the exploration of functional criteria inherent in the design of interior spaces. Problem analysis, identification of client and user needs, selection of interior finishes and materials; a detailed, developed layout plus selection of furniture, fixtures, and equipment are emphasized. Offered spring only.

**IDE 252 CONSTRUCTION FUNDAMENTALS II**

3, 3/0

Prerequisite: IDE 202. Exploration of advanced construction techniques and materials used in the built environment, with specific emphasis on building systems. Illustrates the principles and philosophy of current building systems and how they relate to appearance, composition, and installation. Knowledge is utilized in practical application and collaboration with the studio course. Offered spring only.

**IDE 254 HISTORY OF INTERIOR DESIGN AND ARCHITECTURE II**

3, 3/0; CT14, IM14, WIIF

Prerequisites: IDE 205. A comprehensive survey of the major historical periods of architecture and interiors from the Industrial Revolution to the present. Offered spring only.

### IDE 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### IDE 301 INTERIOR DESIGN III

3, 1/5

Prerequisite: IDE 251. Corequisite: IDE 303. Medium-scale design projects are used to explore the principles of retail design and merchandising, focusing on the translation of clearly stated program goals and objectives into unique spatial solutions. Offered fall only.

### IDE 302 COMPUTER APPLICATIONS FOR INTERIOR DESIGN I

3, 1/4

Intermediate-level course. Integrates computer presentation software to augment concurrent Interior Design studio, professional practice, and stand-alone projects. Digital 3-D modeling and 2-D presentation tools, in conjunction with computer-aided design (CAD) software, are used to translate students' fundamental manual presentation techniques to digital drawing, modeling, and layout. Offered fall only.

### IDE 303 CONSTRUCTION DOCUMENTATION AND INTERIOR DETAILING

3, 2/4

Prerequisites: IDE 202. Understanding and creation of detailing and construction documentation of interior spaces. Interior designs are taken from concept to construction via micro-design projects. Emphasis is on the exploration and marriage of materials, construction techniques, prototype modeling and drawing conventions as professional communication tools. Material interfaces and transitions are designed, lighting is integrated, notes, reference marks and key tag conventions are implemented and professional construction document project sets are completed. Offered every fall semester

### IDE 306 COLOR AND LIGHT

3, 3/0

Prerequisite: IDE 101. The study of a) physical properties of light and color in relation to elements and principles of design, b) physiological effects of light, c) elements of natural and artificial light, luminaire and control systems, d) color principles, theories, and systems to aid selection and application of color in the interior environment. Offered every fall

### IDE 351 INTERIOR DESIGN IV

3, 1/5

Prerequisite: IDE 301. Information-gathering research and analysis is the basis to solve the functional and spatial requirements of complex public buildings, such as museums, libraries, health-care facilities, and cinemas. Special emphasis is placed on adjacencies, circulation, articulation, and the shaping of space. Offered spring only.

### IDE 352 COMPUTER APPLICATIONS FOR INTERIOR DESIGN II

3, 1/4

Advanced topics of instruction in Computer Aided Architectural Drafting. Instruction focuses on creation and manipulation of the three-dimensional virtual built environment; including lighting and rendering techniques to create presentation-level graphics. The course also presents an introduction to Building Information Modeling (BIM) software. Offered spring only.

### IDE 354 GLOBAL DESIGN STUDY TOUR

3, 1/5

Prerequisites: open for visual arts sophomores, juniors, and seniors with a cumulative GPA of 2.5 or better, instructor permission required. The Global Design Study Tour provides an opportunity to travel and experience a wide range of different cultural and geographical settings and their impact on interior design, art and architecture. Students will study exemplary global designs with an awareness and respect for cultural and social diversity. Offered occasionally.

### IDE 355 LIGHTING DESIGN

3, 1/5

Designing with light, illumination principles, design criteria, specifications, and systems applied to public and private interiors. Hands-on experience using a lighting lab, case studies, and 3-D projects reinforce lecture material in a studio setting. Offered spring only.

### IDE 356 ADVANCED PARAMETRIC DESIGN

3, 2/0

Prerequisites: IDE 352. Theory and application of visual programming as expression of parameters and rules that together define, encode and clarify the relationship between design intent and design response with a focus on the creation and communication of interior architectural environments. Offered every spring semester.

### IDE 357 AMERICAN DIVERSITY AND DESIGN

3, 3/0; DI14

Prerequisites: Instructor Permission. Survey how design has affected and been affected by diverse populations in the U.S., specifically including race, ethnicity, gender, class, age, physical ability, cognitive ability, and religion. Examination of physical and media environments by and about diverse U.S. individuals and groups. Inclusive design principles are presented as an analytical framework. Offered spring only.

### IDE 389 TOPICS COURSE

1-3, 1/0

### IDE 401 INTERIOR DESIGN V

1-3, 1/5

Prerequisite: IDE 351. Large-scale office planning design projects are used to explore the functional and aesthetic requirements of complex administrative buildings. Anthropometric requirements; physical, sociological, and psychological needs; and the research, analysis, and programming skills needed for designing interior work-spheres are emphasized. Offered fall only.

## IDE 403 PROFESSIONAL PRACTICE

3, 3/0; CT14, IM14, WIIF

Introduction to the business principles, practices and ethics of the Interior Design profession. Emphasis is placed on regional standards, codes, means, methods, organizational charts, and client interaction. Résumé and portfolio creation, preparation for internship, and job interviews, business development and marketing material creation.

## IDE 404 INTERIOR DESIGN THESIS RESEARCH

3, 3/0

Prerequisites: IDE 401. Part one of the thesis project, students advance their research and design skills required to meet a complex design project. Selection of the client, site, in-depth precedent study, code and building analysis, evidence based design, and research writing, design research methods are key issues addressed in this course. Offered annually.

## IDE 451 INTERIOR DESIGN VI THESIS STUDIO

3, 1/5; CT14, IM14

Prerequisite: IDE 401. Constitutes the final studio experience prior to graduation and features one major design project. Students focus their design initiative with increased objectivity and adopt a comprehensive approach to the interior design process utilizing proposal, research, schematic design, construction documentation, material selections, specifications, technical writing, and presentation. Offered spring only.

## IDE 488 INTERIOR DESIGN INTERNSHIP

3, 0/6

Guided and supervised exposure to professional interior design operations through on-the-job work experience in an authorized design firm, department, studio, or showroom. To earn 3 credit hours, students must complete 135 contract hours with the firm, provide a written report of the work experience, and receive a written evaluation from the employer. Offered fall only.

Equivalent Course: DES 488

## IDE 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisite: Faculty adviser permission.

# International Education (INE)

## INE 190 STUDY ABROAD (INTERNATIONAL EDUCATION)

1-18, 0/0

Study Abroad.

## INE 390 STUDY ABROAD (INTERNATIONAL EDUCATION)

1-18, 0/0

Study Abroad

## INE 391 STUDY ABROAD

1-18, 0/0

# International Studies (IST)

## IST 100 INTRODUCTION TO INTERNATIONAL STUDIES

3, 3/0

An introduction to key issues and perspectives in the field of International Studies. This course will explore the interconnected nature of global political, economic, and socio-cultural practices, as well as how the United States affects - and is affected by - other nations and cultures.

Equivalent Course: GST 200

# Italian (ITA)

## ITA 101 BEGINNING ITALIAN I

3, 3/0; GE14

Fundamentals of Italian with emphasis on listening, reading, speaking and writing. Offered every semester.

## ITA 102 BEGINNING ITALIAN II

3, 3/0; GE14

Prerequisite: ITA 101. Continuation of ITA 101. Offered every semester.

## ITA 201 INTERMEDIATE ITALIAN I

3, 3/0

Prerequisite: ITA 102. Further development of basic skills with emphasis on listening, reading, speaking and writing. Offered fall only.

## ITA 202 INTERMEDIATE ITALIAN II

3, 3/0

Prerequisite: ITA 201. Continuation of ITA 201. Offered spring only.

## ITA 301 ITALIAN CONVERSATION AND COMPOSITION

3, 3/0

Prerequisite: ITA 202. Practice in written and spoken Italian. Offered fall only.

## ITA 302 ITALIAN CONVERSATION AND COMPOSITION

3, 3/0

Prerequisite: ITA 202. Practice in written and spoken Italian. Offered spring only.

## ITA 306 CONTEMPORARY ITALIAN CIVILIZATION

3, 3/0

Prerequisite: If offered in English, none; if offered in Italian, ITA 202 or equivalent. Cultural, intellectual, and social developments in Italy, past and present. Offered in English or Italian, as noted in the master schedule. When in English, this course may not be applied to the Italian minor. Offered occasionally.

## ITA 307 SURVEY OF ITALIAN LITERATURE

3, 3/0

Prerequisite: ITA 202. Readings and discussions of major works from the origins through the cinquecento. Offered occasionally.

## ITA 308 SURVEY OF ITALIAN LITERATURE

3, 3/0

Prerequisite: ITA 202. Readings and discussions of major works from the seicento to the ottocento. Offered occasionally.

### ITA 410 MODERN ITALIAN LITERATURE

3, 3/0

Prerequisite: One upper-division Italian course. Readings and discussions of representative novels and short stories of the twentieth century. Offered occasionally.

### ITA 450 DIRECTED READINGS I

3, 3/0

Prerequisite: Permission of instructor. Variable topics. Offered occasionally.

### ITA 451 DIRECTED READINGS II

3, 3/0

Prerequisite: Permission of instructor. Variable topics. Offered occasionally.

### ITA 499 INDEPENDENT STUDY

3, 0/0

Offered every semester.

## Latin (LAT)

### LAT 101 BEGINNING LATIN I

3, 3/0; GE14

Fundamentals of Latin with emphasis on reading.

### LAT 102 BEGINNING LATIN II

3, 3/0; GE14

Prerequisite: LAT 101. Continuation of LAT 101.

### LAT 201 INTERMEDIATE LATIN I

3, 3/0

Prerequisite: LAT 102 or equivalent. Further development of reading and writing ability, with continuation emphasis on the comprehension of the written language. Offered occasionally.

### LAT 202 INTERMEDIATE LATIN II

3, 3/0

Prerequisite: LAT 201 or equivalent. Continuation of LAT 201. Offered occasionally.

### LAT 295 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

### LAT 495 SPECIAL PROJECT

3, 0/0

LAT 495

### LAT 497 WORKSHOP

3, 0/0

Special offering. Topic chosen by instructor. Offered occasionally.

## Library (LIB)

### LIB 100 INTRODUCTION TO LIBRARY RESEARCH METHODS

1, 1/0

Overview of library collections and services to maximize research efficiency. Research strategies and tools, including the online library catalog, periodical and reference databases, and Web resources. Open to all students. Recommended for freshmen and sophomores.

### LIB 300 ADVANCED LIBRARY RESEARCH METHODS

3, 3/0

Advanced library research strategies with critical thinking and evaluation skills. Emphasizes selecting and using appropriate print and online sources to conduct specialized research. Recommended for students with upper-division status and those planning to pursue graduate studies.

### LIB 495 SPECIAL PROJECT

1-3, 0/0

SPECIAL PROJECT

### LIB 499 INDEPENDENT STUDY

3-12, 0/0

## Mathematics (MAT)

### MAT 103 INTRODUCTION TO MATHEMATICS

3, 3/0; MQ14

Some of the greatest achievements of mathematical thought, highlighting the beauty and creativity of these ideas. Topics include Fibonacci numbers; the golden rectangle; estimation; comparing infinities; fractals; the Pythagorean Theorem; the five platonic solids; and selected topics from probability and statistics. Designed for liberal arts majors who do not plan to take further math courses. Offered every semester.

### MAT 107 CASINO GAMBLING

3, 3/0

Learn how the laws of probability and mathematical expectation can uncover the player's disadvantage in various gambling situations. An essential element in the classroom will be the actual playing of the major casino games so that the student gains first-hand encounters with the phenomenon of chance and the problems of making a decision in the face of uncertainty.

### MAT 114 FUNCTIONS AND MODELING

3, 3/0; MQ14

Prerequisite: 3 years high school mathematics or equivalent. Describe and explore real-world functions, data, and phenomena through graphic, numeric, symbolic, and verbal representations. Use elementary functions (linear, polynomial, power, and exponential) to investigate and analyze applied problems (supported by the use of appropriate technology). Offered every semester.

### MAT 121 ELEMENTARY MATHEMATICS FROM AN ADVANCED STANDPOINT I

4, 4/0

Prerequisite: 3 years of high school math or equivalent. First course of a two-semester sequence on the fundamental concepts of elementary mathematics: positional numeration systems, number and operations, proportional reasoning, and number theory. Emphasis on problem solving, understanding the concepts and procedures of elementary mathematics, mathematical modeling, the use of manipulatives, and effective communication of mathematical ideas. Offered every semester.

**MAT 122 ELEMENTARY MATHEMATICS FROM AN  
ADVANCED STANDPOINT II**

4, 4/0; MQ14

Prerequisite: MAT 121 or equivalent. Second course of a two-semester sequence on the fundamental concepts of elementary mathematics: 2- and 3-dimensional geometry, measurement, probability, statistics, linear and non-linear functions. Emphasis on problem solving, understanding the concepts and procedures of elementary mathematics, mathematical modeling, the use of manipulatives, and effective communication of mathematical ideas. Offered every semester.

**MAT 124 FUNCTIONS AND MODELING II**

3, 3/0; MQ14

Prerequisite: MAT 114 with a minimum grade of C, or equivalent. A precalculus course designed for students who have completed a minimum of three years of New York State Regents high school mathematics or the equivalent. Topics include analysis of polynomial, rational, exponential, logarithmic, and trigonometric functions from graphical, symbolic, numerical, and verbal perspectives with an emphasis on modeling and applications of those functions in real-world contexts. No credit given to students who have previously completed MAT 126 or MAT 161 or equivalent. Offered every semester.

**MAT 126 APPLIED CALCULUS I**

4, 4/0; MQ14

Prerequisite: MAT 124 with a minimum grade of C, or four years of Regents high school mathematics. Intuitive introduction to differential and integral calculus. Analysis of functions, derivatives of algebraic, exponential, and logarithmic functions, applications of the derivative, anti-derivatives of simple algebraic, exponential and logarithmic functions, area and the fundamental theorem of calculus. Graphical, symbolic, numerical, and verbal representations are used for all topics. Designed for students majoring in disciplines that use calculus as a tool. No credit given to students who have previously completed MAT 161 or equivalent. Offered every semester.

**MAT 127 APPLIED CALCULUS II**

4, 4/0

Prerequisite: MAT 126 with a minimum grade of C, or equivalent. Continuation of MAT 126. Techniques of integration; applications of integration; introduction to differential equations including separation of variables, first order linear equations, and their applications; Taylor polynomials; Newton's method; partial derivatives; and optimization of functions of two and three variables. Graphical, symbolic, numerical, and verbal representations are used for all topics. Designed for students majoring in disciplines that use calculus as a tool. No credit given to students who have previously completed MAT 162 or equivalent. Offered every semester.

**MAT 161 CALCULUS I**

4, 4/0; MQ14

Prerequisite: MAT 124 with a minimum grade of C.  
Corequisite: MAT 163. Graphic, symbolic, and numeric representation and analysis of functions; limits; continuity; derivatives and antiderivatives of algebraic, trigonometric, exponential, and logarithmic functions; applications of the derivative and antiderivative. Appropriate for math majors and students in partner disciplines requiring understanding of fundamental principles of calculus with emphasis on deductive reasoning and proof. Offered every semester.  
Equivalent Course: MAT 126

**MAT 162 CALCULUS II**

4, 4/0

Prerequisite: MAT 161 with a minimum grade of C.  
Corequisite: MAT 164. A continuation of MAT 161. Area accumulation functions; definition of the definite integral; fundamental theorem of calculus; integration techniques; applications of integrals; improper integrals; sequences and series; function approximation. Graphic, symbolic, and numeric representations are used throughout the course. Appropriate for math majors and students in partner disciplines requiring understanding of fundamental principles of calculus with emphasis on deductive reasoning and proof. Offered every semester.

**MAT 163 USING TECHNOLOGY TO EXPLORE  
CALCULUS I**

1, 0/1

Corequisite: MAT 161 or equivalent. Exploration of Calculus I using a programmable graphing calculator. Offered every semester.

**MAT 164 USING TECHNOLOGY TO EXPLORE  
CALCULUS II**

1, 0/1

Corequisite: MAT 162 or equivalent. Exploration of Calculus II, using a computer algebra system. Offered every semester.

**MAT 189 TOPIC COURSE**

1-3, 0/0

Current topics in Mathematics. Offered occasionally.

**MAT 202 INTRODUCTION TO LINEAR ALGEBRA**

3, 3/0

Prerequisite: MAT 161 or MAT 126. Vectors and vector spaces; linear dependence, basis and dimension; matrices and determinants; linear systems; linear transformations; eigenvectors; invariant subspaces. Offered every semester.

**MAT 223 ELEMENTARY AND MIDDLE SCHOOL  
MATHEMATICS FROM AN ADVANCED STANDPOINT**

4, 4/0

Pre-requisite: MAT 121, MAT 122. Deepens and extends content introduced in MAT 121 and MAT 122 through study of analytic and synthetic geometry, transformational geometry, statistics and fundamental concepts of probability. Emphasis on mathematical reasoning and problem solving, mathematical modeling, use of appropriate tools, and effective communication of mathematical ideas prominent in upper elementary and middle school.

**MAT 241 COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS I**

3, 3/0

Prerequisite: MAT 161 and MAT 163 or equivalent or permission of instructor. Fundamental concepts of problem solving by computer as applied to mathematics. Computer organization, operations and functions, algorithm development, programming techniques. Numerical methods as used in calculus, linear algebra, geometry, etc. Uses a computer language to be applied in this and other mathematics classes. Offered fall only.

**MAT 263 CALCULUS III**

4, 4/0

Prerequisite: MAT 162 with a minimum grade of C, or equivalent. Corequisite: MAT 264. Multivariable spaces and functions, multivariable derivatives, multivariable integrals, and vector analysis. Offered every semester.

**MAT 264 USING TECHNOLOGY TO EXPLORE CALCULUS III**

1, 0/1

Prerequisite: MAT 164. Corequisite: MAT 263. Exploration of Calculus III using a Computer Algebra System. Offered every semester.

**MAT 270 DISCRETE MATHEMATICS**

3, 3/0

Prerequisites: 4 years of high school mathematics or equivalent. Fundamental principles used in discrete mathematics. Topics include logic, mathematical induction, sets, relations, functions, permutations, combinations, recursion, and graph theory. Offered every semester.

**MAT 300 TECHNIQUES OF PROOF**

3, 3/0

Prerequisite: MAT 161 AND MAT 270. A gateway to upper-division mathematics with an emphasis on mathematical structures, techniques of proof, and the effective written and oral communication of mathematical ideas. Designed to ease the transition from lower-division mathematics to more theoretical courses such as abstract algebra and real analysis. Students are required to submit written work and make oral presentations. Offered every semester.

**MAT 301 FUNDAMENTALS OF ABSTRACT ALGEBRA**

3, 3/0; WIIF

Prerequisite: MAT 202 and MAT 300. Fundamental concepts of abstract algebra: sets, mappings, binary operations, relations; algebraic structures of groups, rings, fields, and applications. Offered every semester.

**MAT 302 ABSTRACT ALGEBRA II**

3, 3/0

Prerequisite: MAT 301. Quotient fields of integral domains, polynomials, rings; Euclidean domains, ideals, and factorization; finite fields, extension fields, splitting fields. Applications to geometric constructions and solvability chosen from contemporary areas of coding theory, block designs, etc. Offered occasionally.

**MAT 309 DISCRETE MATHEMATICS II**

3, 3/0

Prerequisite: MAT 270. Automata, modules, group codes, linear machines, polynomial rings, cyclic codes, minimum polynomials, context-free grammars, tree automata, polish notation, pushdown automata. Offered occasionally.

**MAT 311 INTRODUCTORY PROBABILITY AND STATISTICS**

3, 3/0; MQ14

Prerequisite: Three years of Regents high school mathematics. Descriptive statistics; probability and random variables; binomial, normal, and t distributions; estimation and tests of hypotheses concerning means, proportions, and differences between means and proportions. Does not count toward the 0718, 0719, 0721 majors. Offered every semester.

**MAT 315 DIFFERENTIAL EQUATIONS**

3, 3/0; WIIF

Prerequisites: MAT 162 or permission of instructor. Preliminary ideas of order, degree, linear/nonlinear, direction fields, and solutions; formation of differential equations; first order differential equations; second order differential equations; higher order differential equations; systems of differential equations; series solutions.

**MAT 316 INTERMEDIATE DIFFERENTIAL EQUATIONS**

3, 3/0

Prerequisite: MAT 315. Laplace transform; inverse Laplace transform and applications; partial differential equations; Fourier series; boundary value problems; transform methods application. Offered spring only.

**MAT 318 MATHEMATICAL MODELING**

3, 3/0

Prerequisites: MAT 162 and MAT 202. Construction, interpretation and application of mathematical models; various modeling paradigms such as deterministic, probabilistic, discrete and continuous modeling. Models which provide valuable insights into contemporary topics from different fields that may include bio-medical applications, financial mathematics, cellular automata models, mathematical methods for data collection and analysis in geology, mathematical tools for GIS, and weather prediction. Offered fall only.

**MAT 319 MATHEMATICAL BIOLOGY**

3, 3/0

Prerequisites: MAT 161 with a minimum grade of C, or equivalent. A project-oriented, introductory mathematical modeling course with an emphasis on the construction and analysis of mathematical models of biological events and phenomena. Mathematical topics include matrix algebra, difference and differential equations. Biological topics include population dynamics, dynamics of infectious disease and models of molecular evolution. Offered spring only.

**MAT 322 MODERN GEOMETRY**

3, 3/0

Prerequisite: MAT 270. Axiomatic systems; Euclidean geometry; constructions; transformational geometry; symmetry; computational geometry. Offered fall semester only

**MAT 325 PROBABILITY AND STATISTICS**

3, 3/0

Prerequisites: MAT 127 or MAT 162 and MAT 270 or permission of instructor. Probability (graphic representations, descriptions of probabilistic events, combinatorics and combinatorial probability); discrete and continuous probability distributions; descriptive statistics; estimation and tests of hypotheses concerning means, proportions, variance and standard deviation and differences between means and proportions. Offered spring semester only.

**MAT 351 ELEMENTARY THEORY OF NUMBERS**

3, 3/0

Prerequisite: Four years of Regents high school mathematics. Divisibility; Euclid's algorithm; numbers; prime factorization theorem; Euler's phi-function; Diophantine analysis; congruence; theorems of Fermat, Euler, and Wilson. Offered every semester.

**MAT 366 COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS II**

3, 3/0

Prerequisites: MAT 164, MAT 241, and MAT 270; or permission of instructor. Structured programming, verification of program validity, data structures, combinatorial problems, flow network, algorithms, random number generators, simulation of random and nonrandom processes. Offered spring only.

**MAT 370 APPLIED NETWORKS**

3, 3/0

Prerequisites: MAT 202 and MAT 270. Introduction to network and graph theoretic concepts. Properties with application in computational mathematics, social science, decision making, and physical science. Offered occasionally.

**MAT 381 PROBABILITY THEORY**

3, 3/0

Prerequisites: MAT 270 and either MAT 127 or MAT 162. Probability models; discrete and continuous random variables and their distributions or densities; multivariate distributions; mathematical expectation; special distributions and densities. Offered every semester.

**MAT 382 MATHEMATICAL STATISTICS**

3, 3/0

Prerequisites: MAT 263 and MAT 381. Sampling distributions; central-limit theorem; point and interval estimation; tests of hypotheses. Offered spring only.

**MAT 383 APPLIED STATISTICS I**

3, 3/0

Prerequisites: MAT 382 or MAT 325. Categorical data analysis; simple linear regression and correlation; multiple linear regression; experimental design models (one, two or more factors); nonparametric statistics. Offered spring only.

**MAT 390 INTRODUCTION TO OPERATIONS RESEARCH**

3, 3/0

Prerequisites: MAT 202 and MAT 270. Optimization of real-world problems modeled by linear objective functions subject to systems of linear inequalities and solved by either the two-phase revised simplex method or by the network simplex method. Mathematics behind these methods. Applications in diverse areas such as business management, industry, economics, finance, game theory, geometry, and networks. Offered spring only.

**MAT 401 INTRODUCTION TO COMPUTABILITY**

3, 3/0

Prerequisites: MAT 270 and either MAT 301 or MAT 351. Introduction to topics in finite automata and Turing machines, including universal Turing machines and abstract computability. Offered occasionally.

**MAT 404 APPLICATIONS OF LINEAR ALGEBRA**

3, 3/0

Prerequisites: MAT 202, MAT 263, and MAT 264. Eigenvalue problems; diagonalizing matrices; linear programming; simplex method; applications to areas such as business, industry, economics, social sciences, and behavioral sciences. Offered fall only.

**MAT 411 COMPLEX VARIABLES**

3, 3/0

Prerequisite: MAT 263. Complex numbers; analytic functions; elementary functions; contour integration; integral theorems; Taylor series; Laurent series; uniform convergence; calculus of residues; mappings and applications. Offered every semester.

**MAT 417 INTRODUCTION TO REAL ANALYSIS I**

3, 3/0

Prerequisite: MAT 263 AND MAT 300. Elementary real analysis, including properties and axioms of the real number system; relations and functions; sequences; continuity; differentiation; infinite series; power series; Riemann integral. Offered every semester.

**MAT 418 INTRODUCTION TO REAL ANALYSIS II**

3, 3/0

Prerequisite: MAT 417 or equivalent. Continuation of MAT 417 with topics chosen from: Riemann-Stieltjes integration; improper integrals; infinite series; series of functions; partial differentiation; Jacobians; implicit function; multiple integrals; Fubini's Theorem. Offered occasionally.

**MAT 430 SET THEORY**

3, 3/0

Prerequisites: MAT 300 or PHI 307 with a grade of C or better. Fundamental facts about abstract sets—relations, functions, natural numbers, order, cardinality, transfinite recursion, the axiom of choice, Zorn's lemma, ordinal numbers, and cardinal numbers—within the framework of axiomatic set theory. Axioms used to investigate infinite sets and to generalize the concepts of induction and recursion.

**MAT 431 MATHEMATICAL LOGIC**

3, 3/0

Prerequisites: MAT 300 or PHI 307 with a grade of C or higher. Validity, deductibility, and completeness in propositional and predicate logics; first-order formal theories and informal theories in the context of set theory. Offered occasionally.

**MAT 461 NUMERICAL ANALYSIS**

3, 3/0

Prerequisites: MAT 202, MAT 263, and MAT 264. Numerical solutions (and error analysis) to linear and nonlinear equations; interpolation; curve fitting; function approximation; numerical differentiation and integration; differential equations. Offered occasionally.

**MAT 471 INTRODUCTION TO TOPOLOGY**

3, 3/0

Prerequisites: MAT 270 and either MAT 301 or MAT 417. Introduction to topology: sets and functions; metric spaces; topological spaces; connectedness; compactness; separation. Offered occasionally.



### MAT 481 STOCHASTIC PROCESSES

3, 3/0

Prerequisite: MAT 325 or MAT 381. Random walks, Brownian motion, Markov chains and applications, continuous-time processes including exponential distribution and Poisson processes, software applications. Offered occasionally.

### MAT 484 APPLIED STATISTICS II

3, 3/0

Prerequisite: MAT 383. Logistic regression, survival analysis, time series analysis. Offered occasionally.

### MAT 486 MODELS AND METHODS OF ACTUARIAL MATHEMATICS

3, 3/0

Prerequisites: MAT 202, MAT 315 and MAT 381, or instructor permission, Applications of probability theory, calculus, linear algebra, and differential equations to the development and utilization of methods and models of actuarial mathematics such as survival models, mortality models, life tables, finite probability spaces, multivariate distributions, stochastic processes, Brownian motion, stochastic integrals, Ito's lemma. Offered fall semester.

### MAT 490 SEMINAR

1-3, 1/0

Prerequisite: Senior mathematics major or permission of instructor. Investigation of topics of current interest to mathematicians, such as group theory; game theory; differential geometry; measure theory; sampling theory. Emphasis on oral presentations and discussions. Offered occasionally.

### MAT 491 CAPSTONE RESEARCH IN MATHEMATICS

3, 3/0; CT14, IM14, WIIF

Prerequisites: MAT 301 or MAT 417 and senior status; or permission of instructor. Independent research under the direction of the instructor. Composition of a research paper and presentation of results at a seminar for faculty and students. Offered spring only.

### MAT 495 SPECIAL PROJECT

1-3, 0/0

Offered occasionally.

Equivalent Course: AMT 495

### MAT 499 INDEPENDENT STUDY

3-12, 0/0

Offered every semester.

## Mathematics Education (MED)

### MED 200 FOUNDATIONS OF TEACHING MATHEMATICS 7-12 AND FIELD EXPERIENCE

3, 1.5/0; DI14

Prerequisites: MAT 161 or permission of instructor. Current policies and practices in the field of mathematics education including content and pedagogy, national and state standards, and psychological, social, cultural and gender factors that affect the teaching and learning of mathematics. Field experiences in secondary mathematics classrooms that feature racial and ethnic diversity, diversity in SES, and include students with diverse mathematical abilities as well as those identified as having special needs. Offered every semester. Equivalent Course: SED 200

### MED 300 FIELD EXPERIENCE: METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS

3, 2/0

Corequisite: MED 308. Supervised field experience at the middle and/or high school level. Emphasis on implementing pedagogical knowledge, understanding, and practice consistent with state and national mathematics teaching standards discussed in MED 308. Students design and deliver lessons and assessments in a variety of settings (i.e. small group, large group) during 30 hours of clinical experience at local schools. Offered every semester.

### MED 307 USES OF TECHNOLOGY IN THE TEACHING OF MATHEMATICS

3, 3/0

Prerequisites: Upper division status and permission of instructor. 15 hours of field experience required. Equipment and software available for use in the mathematics classroom. Effective use of technology in exploration and development of concepts, problem solving, development of lessons, and assessment of educational potential of current and new technologies. Production and evaluation of projects for use in the mathematics classroom. Offered every semester.

Equivalent Course: SED 307

### MED 308 METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS

3, 3/0; CT14, IM14, WIIF

Minimum of 30 hours of MAT courses completed with a GPA of 2.75. Minimum of 9 hours of Professional courses including MED 200 and MED 307 with a GPA of 2.75. Permission of instructor. Corequisite: MED 300. Introduction to the research based practice of classroom teaching for the prospective secondary mathematics teacher. Students create lesson plans for instruction that engages all learners through the use of virtual and concrete models, technology, innovative curricula, and mathematical modeling; evaluation and assessment; meeting the needs of diverse learners; classroom management in a variety of settings (i.e., small group, large group). Lectures, peer presentations, construction and critique of lesson plans, use of media, and research of teaching strategies. Offered every semester.

### MED 309 TEACHING MATHEMATICS IN THE MIDDLE SCHOOL

3, 3/0

Prerequisites: Must be enrolled in 0524; a minimum of 24 hours of the math concentration completed with a GPA of 2.5 or higher; a minimum of 6 hours of professional education courses completed with a GPA of 2.5 or higher; permission of instructor. Corequisite: MED 308. Preparation to teach mathematics in grades 5-9. Includes techniques and models used to teach mathematics at the middle-school level in the context of current research on how children learn mathematics. Offered spring only.

### MED 383 LEARNING AND TEACHING PROBLEM SOLVING

3, 3/0; WIIF

Prerequisites: CWP 102, MAT 162 or MAT 127, MAT 270, upper-division status. Experiences in mathematical problem-solving; learning through problem-solving; consideration of diverse perspectives and problem-solving approaches; strategies for teaching the use of a problem based approach; the historical and current roles of problem solving in secondary mathematics. Offered every semester.

**MED 406 STUDENT TEACHING OF MATHEMATICS IN THE LOWER MIDDLE GRADES 5-6**

6, 0/0

Prerequisites: Completion of MED 200, MED 307, MED 309, MED 383W, SPF 303, all required mathematics courses, and 6 credit hours of upper-division mathematics courses; minimum GPA of 2.5 in all mathematics and education coursework; senior status. Lower middle school laboratory experiences, goals of lower middle school education, psychological influences, teaching models, assessment techniques, classroom management, total involvement in lower middle school activities, practicum. Offered occasionally.

**MED 407 STUDENT TEACHING OF MATHEMATICS IN JUNIOR HIGH/MIDDLE SCHOOL**

6, 0/0

Prerequisites: Completion of MED 308 and MED 300 or MED 309 with a minimum grade of C; completion of all mathematics coursework; minimum cumulative GPA of 2.5 in all major mathematics courses; completion of all education courses with a minimum cumulative GPA of 2.5; senior status; and instructor permission. Supervised teaching experience five full days a week for approximately eight consecutive weeks in an early secondary mathematics classroom. Effective demonstration of content knowledge, pedagogical preparation, instructional delivery, classroom management, knowledge of student development, collaboration with school professionals, and reflectivity of practice required. Offered every semester.

**MED 408 STUDENT TEACHING OF MATHEMATICS IN HIGH SCHOOL**

6, 0/0

Prerequisites: MTS major; completion of MED 308 and MED 300 with a minimum grade of C; completion of all mathematics degree coursework; minimum cumulative GPA of 2.5 in all major mathematics courses; completion of all education courses with a minimum cumulative GPA of 2.5; senior status; and instructor permission. Supervised teaching experience five full days a week for approximately eight consecutive weeks in an early secondary mathematics classroom. Effective demonstration of content knowledge, pedagogical preparation, instructional delivery, classroom management, knowledge of student development, collaboration with school professionals, and reflectivity of practice required. Offered every semester.

**MED 495 SPECIAL PROJECT**

1-3, 0/0

Research project at the undergraduate level with a focus on mathematic education in middle/high schools.

**MED 499 INDEPENDENT STUDY**

3-12, 0/0

Offered every semester.

## Modern and Classical Languages (MCL)

**MCL 100 ITALIAN CINEMA I**

3, 3/0; HU14

Masterpieces of Italian cinema 1940-1970s. Taught in English. Offered spring and J Term only.

**MCL 110 INTRO FRENCH CINEMA**

3, 3/0; HU14

Taught in English. Introduction to the history and key movements, directors, cinematographers, films, and actors of the French cinema, as well as the social and literary conditions that shaped and informed them, from the 19th century to the post-WWII era. Offered annually.

**MCL 189 TOPICS COURSE**

1-9, 0/0

**MCL 200 ITALIAN CINEMA II**

3, 3/0; HU14

Prerequisites: CWP 102 or instructor permission. Exploration of masterpieces of Italian cinema from the 1970s to the present through the lens of the social and psychological implications of the industrial and post-industrial periods. Offered every spring.

**MCL 205 LANGUAGE, DICTION AND SOCIETY**

3, 3/0

The role of language perception in society; focus on how accent and pronunciation shape societal opinions of speakers, with respect to race, gender, socioeconomic standing, and other factors. Offered occasionally.

**MCL 210 ITALIAN-AMERICANS: LITERATURE AND SOCIETY**

3, 0/0

The Italian experience in the United States as seen through works of fiction and non-fiction. Offered occasionally.

**MCL 295 SPECIAL PROJECT**

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**MCL 310 FRENCH CINEMA II**

3, 3/0

Prerequisites: CWP 102. Taught in English. Development of French cinema from post-WW II Neorealism and poetic realism to cinema d'auteur, achievements of its major directors, influence of French culture on cinema. Offered annually.

**MCL 337 GREEK AND ROMAN MYTHOLOGY**

3, 3/0

Prerequisite: One college-level literature course. Stories of the gods, goddesses, and heroes of Greece and Rome as presented in Greek and Roman literature. Emphasis upon determining possible origins and meanings of the myths studied. Offered every semester.

**MCL 338 INTRODUCTION TO CLASSICAL GREEK DRAMA**

3, 3/0

Prerequisite: One literature course. Origin of European drama as a distinct literary form. Characteristics of Greek tragedy and theatrical conventions. Study of works by major playwrights, with emphasis on cultural patterns of the time. Equivalent Course: FLA 338

**MCL 346 WOMEN IN FOREIGN LITERATURE**  
3, 3/0

Prerequisite: A basic literature course at the college level or permission of instructor. An examination of the contributions of women writers and of the portrayal of women as literary characters by male and female writers in one or more foreign literatures. Emphasis on authors, eras, topics, and literature varies with instructors. Offered occasionally.

**MCL 370 INTRODUCTION TO COMMUNITY INTERPRETING AND TRANSLATION**  
3, 3/0

Prerequisite: At least five semesters of study of a language other than English or equivalent. Taught in English. Overview of concepts and skills in community interpreting and translation. Students will also develop critical awareness of standard use of English and a second language. Offered every fall.

**MCL 389 TOPIC COURSE**  
3, 0/0

Current advanced topics in modern and classical languages. Offered occasionally.

**MCL 461 LANGUAGE TEACHING WORKSHOP**  
3, 0/0

Prerequisite: Mastery of the language to be taught and instructor permission. An intensive course in foreign language teaching at the college level. Includes theory and practice and training in audio-lingual techniques on the 101-102 levels. Offered occasionally.

**MCL 462 LANGUAGE TEACHING WORKSHOP**  
3, 0/0

Prerequisite: MCL 461. Continuation of MCL 461. The course can be taken in either sequence. Offered occasionally.

**MCL 488 INTERNSHIP**  
1-15, 0/0

Prerequisite: Upper-division status and permission of instructor and department chair. Overall 2.5 GPA and 2.5 GPA in upper-division courses in specific language area. Guided and supervised field experiences (experiential learning) of degree programs. Supervised on-site activities for qualified students; training sessions, seminars and reports. Offered every semester.

**MCL 495 SPECIAL PROJECT**  
3, 0/0

Prerequisite: Permission of instructor. Offered every semester.

**MCL 499 INDEPENDENT STUDY**  
3-12, 0/0

Prerequisite: Permission of instructor. Offered every semester.

## Muriel A. Howard Honors Prog. (HON)

**HON 100 ALL COLLEGE HONORS SEMINAR**  
3, 3/0

Prerequisite: Muriel A. Howard Honors Program (MAH) Students Only. Introductory course. Introduces students to faculty from across the disciplines. Includes discussion of specific fields of study and their contributions to the betterment of humankind. Promotes student appreciation, critical examination, and application of interrelated concepts and values as defined by works of literature, art, music, scientific endeavor, technology, historical research, pedagogy, and political theory.

Equivalent Course: BSC 101

**HON 101 HUMANITIES SEMINAR**  
3, 3/0; HU14

Prerequisite: Muriel A. Howard Honors Program (MAH) Students Only. Humanities core. Part of an integrated sequence of core courses. Focuses on great ideas and works of various cultures.

**HON 102 NATURAL SCIENCE SEMINAR**  
3, 3/0; NS14

Prerequisite: Muriel A. Howard Honors Program (MAH) Students Only. Natural science core. Part of an integrated sequence of core courses. Focuses on the role of science in contemporary society. Students enrolled in this course may not receive credit for SCI 100.

Equivalent Course: SCI 100

**HON 103 ARTS SEMINAR: STUDIO ARTS**  
3, 1/0; AR14

Prerequisite: Admission to Honors Program. Arts core. Honors Arts Foundations in Studio formats. Through studio work, the course will explore artistic processes and outcomes, cultural, historical, and societal influences and build skills for critical analysis of artistic works. Students will relate art practices to research and scholarship. Offered every semester.

**HON 104 AMERICAN HISTORY SEMINAR**  
3, 3/0; AH14

Prerequisite: Admission to the Honors Program. A history of the United States from 1492 to the present. This introductory course includes political and economic historical developments in U.S. history, but it will focus more heavily on social, religious, ethnic, and cultural transformation in distinct eras from Colonial America to American Constitution, the crisis of the Union and reconstruction, modernization and corporatization of America, influx of immigrant populations, populism and progressivism, and the cold war. Topics of discussion will focus on American History through the lens of international affairs, the growing cultural diversity of the American people, and challenges to traditional ideologies and political solutions. Offered every semester.

### HON 106 ARTS FOUNDATIONS SEMINAR: INQUIRY AND ANALYSIS

3, 3/0; AR14

Prerequisite: Admission to Honors Program. Honors Arts Foundations: Inquiry & Analysis is a seminar course offered in non-studio formats. Course will explore artistic processes and outcomes, cultural, historical, and societal influences and contexts, and build skills for critical analysis of artworks. Students will concentrate on the difference between practice and theory in the arts. Offered every semester.

### HON 111 INTRODUCTION TO HONORS

1, 1/0

Prerequisites: Admission to Honors Program. Introductory course to Buffalo State College and the Honors Programs. Included will be active involvement in the honors program and a connection to the campus and surrounding community. Skill-building course to assist Honors' students with campus life and academic success. Offered every fall.

### HON 189 TOPICS COURSE

1-3, 1/0

Topics in Honor Student Studies. Offered occasionally.

### HON 201 NON-WESTERN CIVILATIONS SEMINAR

3, 3/0; NW14

Prerequisite: Admission to Honors Program. The study of origin, evolution, and development of Non-Western civilizations. The course may focus on one or multiple Non-Western civilizations of their choice and focus on a period in time such as South and East Asia, sub-Saharan Africa, and the Americas prior to the European Age of Exploration. The topics of focus will include the rise and spread of various empires in terms of influence, achievements and lasting impact from socioeconomic, political, and global perspectives in the chosen Non-Western Civilization and period in time. Offered every semester.

### HON 202 SOCIAL SCIENCE SEMINAR

3, 3/0; SS14

Prerequisite: Muriel A. Howard Honors Program (MAH) Students Only. A social science core course designed for MAH Honor students as part of an integrated sequence of core courses. This course focuses on the central ideas, epistemology, issues and significant works in and among the disciplines of the social sciences.

### HON 209 WESTERN CIVILIZATIONS SEMINAR

3, 3/0; WC14

Prerequisite: Admission to Honors Program. The study of origin, evolution, and development of Western civilizations. The course may focus on one or multiple Western civilizations of the instructor's choice and focus on a period in time such as Greco-Roman, Judeo-Christian movements, Renaissance, Reformation, the Enlightenment, the Industrial Revolution, the Scientific Revolution, and the development of Liberal Democracy etc. The topics of focus will include the rise and spread of various empires in terms of influence, achievements and lasting impact from socioeconomic, political, and global perspectives in the chosen Western Civilization and period in time. Offered every semester.

### HON 295 HONORS SPECIAL PROJECT

1-3, 0/0

Prerequisite: Instructor permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered Occasionally.

### HON 301 VALUES AND ETHICS IN THE PROFESSIONS

3, 3/0

Prerequisite: Muriel A. Howard Honors Program (MAH) Students Only. Theories of value development, value dilemmas. Implications of legal aspects of the ethical practice of human service, educational, and healthcare professions from a personal and professional viewpoint.

### HON 303 DIVERSITY SEMINAR

3, 3/0; DI14

Prerequisite: Admission to Honors Program. What does it mean to be diverse? How do issues of diversity including race, ethnicity, gender, class, age, physical ability, cognitive ability, sexual diversity, and religion impact us? This course will explore issues of diversity and students will respond critically to the topics covered in class.

### HON 309 WESTERN IDEALS OF EXCELLENCE

3, 3/0; WC14

Prerequisites: Muriel A. Howard Honors Program (MAH) Students Only. The history and development of Western conceptions of ethics and personal excellence, from the Greeks to the present day.

### HON 389 TOPICS COURSE

1-3, 1/0

Topics in Honor Student Studies. Offered occasionally.

### HON 400 ALL COLLEGE HONORS COLLOQUIUM

3, 3/0

Prerequisite: Muriel A. Howard Honors Program (MAH) Students Only. Culminating activity. Students complete original works of scholarship and creativity and present their work in a colloquium forum to allow for the maximum exchange of ideas. Course provides closure to the objectives of MAH Honors Program.

### HON 444 HONORS SENIOR SEMINAR

1, 1/0

Prerequisites: Admission to Honors Program, Junior or Senior Status. Final course in the Buffalo State Honors sequence. Students evaluate and share career goals, skills and professional dispositions; reflect on their academic journey related to the Buffalo State institutional learning outcomes and their required applied learning experiences. Offered every semester.

### HON 499 INDEPENDENT STUDY

3-12, 0/0

## Museum Studies (MST)

### MST 379 MUSEUM AND CIVIC ENGAGEMENT

3, 3/0

Exploration of how museums and cultural agencies define community identity. Internal operations of museums and cultural agencies. Minimum 20 hours in-service (fieldwork) activity required, with 15 percent of the grade dependent upon the resulting learning from that service. Offered occasionally. Equivalent Course: HIS 379

### MST 380 INTRODUCTION TO THE MUSEUM

3, 3/0

History, theory, and practices of American museums. Extensive reading, illustrated lectures, and exercises in museum operations. Field trips to area museums. Offered fall semester.

Equivalent Course: HIS 380

**MST 381 THE ROLE OF THE HISTORY MUSEUM**  
3, 3/0  
Theory and practice of historical investigation and publication. Uses and procedures of research in historical museums and agencies. Evaluation of source materials. Preparation of historical essays and exhibits. Offered occasionally.  
Equivalent Course: HIS 381

**MST 419 CURATORSHIP**  
3, 3/0  
Principles and techniques of collecting and exhibiting of museum collections; includes use of audiovisual materials, archives at art museums and historic sites; development of professional expertise in curatorship. Offered fall semester.  
Equivalent Course: HIS 419

**MST 420 ADMINISTRATION OF THE HISTORICAL AGENCY OR ART MUSEUM**  
3, 3/0  
Principles and practice of administration of museums. Problems of organization, collection, exhibition, public services, finance, special public relations, and trustee relations. Experience in the area of interpretation. Offered occasionally.  
Equivalent Course: HIS 420

**MST 425 MUSEUM PRESERVATION AND PRACTICE**  
3, 3/0  
Acquaints students who are non-conservation specialists with conservation principles of museum collections. Environmental, handling, and procedural issues; lecture, demonstrations, and practical work; examine exhibition and storage facilities at local institutions. Offered fall semester.  
Equivalent Course: HIS 425

**MST 450 MUSEUM INTERNSHIP**  
3-6, 0/0  
Prerequisites: Upper-division status and permission of instructor. For students interested in gaining practical experience in museum work. Assignment to a particular museum is based on a student's major-related disciplines. Students in areas such as history, anthropology, art history, education, and the natural sciences are eligible. Offered occasionally.  
Equivalent Course: HIS 450

**MST 480 DIGITAL MUSEUM COLLECTIONS**  
3, 3/0  
Digital technology enables museums to make their collections more accessible. Students investigate what is involved in digitizing museum objects through classroom instruction and a class project. To balance theory with practice, students work as a group to develop their own digital collection. Course is taught at Buffalo State College and a local cultural institution. Offered every semester.  
Equivalent Course: HIS 480

**MST 488 INTERNSHIP**  
3-15, 3/0  
Prerequisite: Approval of the faculty supervisor. Supervised field experience in a variety of settings to supplement classroom instruction. Offered occasionally.

**MST 495 SPECIAL PROJECT**  
1-3, 0/0  
Prerequisite: Faculty supervisor permission. Research conducted under the supervision of a faculty member. Offered occasionally.

**MST 497 SPECIAL COURSE: WORKSHOPS**  
3, 3/0

**MST 497**

**MST 498 HONORS RESEARCH**  
3, 0/0  
Offered occasionally.

**MST 499 INDEPENDENT STUDY**  
3-12, 0/0  
Prerequisite: Faculty adviser permission. Offered occasionally.

## Music (MUS)

**MUS 110 ACCOMPANIST COACHING SESSION**  
1, 0/2  
Corequisites: MUS 171, 173, 271, 273, 371, 373, 471, or 473 applied lessons. Provides students enrolled in the applied music lesson sequence the opportunity to meet and rehearse privately with a staff piano accompanist and have an accompanist present in their applied lesson. Emphasis on memorization techniques, solo and ensemble performance techniques, and musical interpretation. Includes solo or chamber repertoire currently under preparation for collegium, jury, or recital performance. Offered every semester.

**MUS 111 ACCOMPANYING FOR PIANISTS**  
1, 1/0  
Prerequisite: Music Majors only. For piano students who wish to gain chamber experience. Students assigned to a vocalist, instrumentalist, or ensemble and will be required to attend weekly applied lessons or rehearsals as well as a coaching/masterclass session with an assigned coach. Offered every semester.

**MUS 112 APPLIED MUSIC**  
1, 1/0  
Prerequisites: Permission of instructor. Previous performance experience; audition and ensemble participation required. Individual lessons for voice or instrument. Private lesson fee possible. Offered occasionally.

**MUS 113 BRASS TECHNIQUES**  
1, 1/0  
Prerequisite: Music education majors. Pre-professional training in performing and teaching methodologies for trumpet, horn, trombone, baritone, and tuba. Offered every semester.

**MUS 114 PERCUSSION TECHNIQUES**  
1, 1/0  
Prerequisite: Music education majors. Pre-professional training in performing and teaching methodologies for percussion instruments. Offered every semester.

**MUS 115 STRING TECHNIQUES**  
1, 1/0  
Prerequisite: Music education majors. Pre-professional training in performing and teaching methodologies for violin, viola, violoncello, and contrabass. Offered every semester.

**MUS 116 WOODWIND TECHNIQUES**  
1, 1/0  
Prerequisite: Music education majors. Pre-professional training in performing and teaching methodologies for flute, clarinet, oboe, bassoon, and saxophone. Offered every semester.

**MUS 119 VOCAL PEDAGOGY**

1, 1/0

Pre-requisites: Majors only. A cooperative class in teaching voice for pre-music educators. Vocal process, and practical teaching will be examined, discussed, analyzed, and practiced. Repeatable. Offered every spring.

**MUS 122 INTRODUCTION TO MUSIC STUDIES AND CAREERS**

2, 2/0

Prerequisite: Majors only. Provides historical, philosophical, and practical foundations needed for a career in music. Experiences that integrate library, research, teacher observation and analysis, reading, and writing skills with regard to the profession will be utilized to assist students' exploration and confirmation of his or her decision to enter the field. Offered fall only.

**MUS 123 CLASS VOICE FOR NON-MAJORS**

1, 0/1

Co-requisite: MUS 335 BSC Chorale. Study and perform vocal music as a singer. Expand the student's knowledge of singing and sight singing. Offered every semester.

**MUS 130 COMPREHENSIVE MUSICIANSHIP I**

1, 3/0

Prerequisites: Majors only. Basic musicianship skills: music notation, rhythm, meter, melody, modes, scales, melodic intervals, harmonic structures; ear training, written theory, composition and performance. Offered every fall.

**MUS 161 CLASS PIANO I**

1, 0/2

This is the first in a sequence of four group piano courses designed for those music students who need to improve their piano skills. The first two semesters focus on developing general musicianship skills, such as sight reading from the grand staff, melody harmonization, technique, improvisation, ensemble performance, practicing, and use of basic theory skills at the keyboard. Offered every semester.

**MUS 162 CLASS PIANO II**

1, 0/2

Prerequisite: C or better in MUS 161 or audition. Continuation of the skills acquired in MUS 161. Offered every semester.

**MUS 171 APPLIED MUSIC**

1, 1/0

Prerequisite: Music Major and Audition. Individual lessons for voice or instrument. Required for music majors. Private lesson fee possible. Concert attendance required. Offered every semester.

**MUS 173 APPLIED MUSIC**

1, 1/0

Prerequisite: Music Major and Audition. Individual lessons for voice or instrument. Required for music majors. Private lesson fee possible. Concert attendance required. Offered every semester.

**MUS 189 TOPIC COURSE**

1-9, 0/1

Course offered periodically on various topics related to Music, Music Education, Music Performance, Music Pedagogy, Music History, Music Theory, or other areas of study related to Music. Offered as needed.

**MUS 201 SURVEY OF WESTERN MUSIC HISTORY**

3, 3/0; AR14

Introduction to music from the Middle Ages to the present; study of forms and styles, composers and performers, cultural and social backgrounds, and parallel developments in other arts. Lecturer and listening assignments. Concert attendance required. Offered every semester and summer.

**MUS 206 FOUNDATIONS OF AMERICAN POPULAR MUSIC 1900-1950**

3, 3/0; AR14, DI14

Prerequisite: CWP 102. This survey course studies the historical developments that helped formulate today's popular music, including the roots of blues, jazz, and rock music in America. Offered every semester.

**MUS 208 SURVEY OF WORLD MUSIC CULTURES**

3, 3/0; AR14

Survey of representative art and popular music cultures of Africa, Asia, the Middle East, and Latin America. Lectures and listening assignments. Concert attendance required. Offered every semester and summer.

**MUS 209 SUB-SAHARAN AFRICAN MUSIC AND CULTURES**

3, 3/0; NW14

Study of the cultures of sub-Saharan Africa focused on the histories and musics from four specific regions. Two-thirds of class time is in lecture format; one-third is dedicated to learning and performing African rhythms on percussion instruments. Offered annually.

Equivalent Course: AAS 209

**MUS 210 MUSIC THEORY FOR NON-MAJORS**

3, 3/0; AR14

Music notation, aural and written. Scales, intervals, triads, seventh chords, rhythms, simple and compound meters, elementary ear-training, dictation, analysis, and composition. Offered every semester.

**MUS 218 AURAL PERCEPTION I**

1, 0/3

Corequisite: MUS 230. Laboratory course for those with basic music-reading skills. Reinforces theoretical music concepts through sight singing, rhythmic, melodic dictation, and basic musicianship. A diagnostic test is given at the beginning of the semester. Required for music majors. Offered every fall.

**MUS 219 AURAL PERCEPTION II**

1, 0/3

Prerequisites: MUS 218 and MUS 230. Corequisite: MUS 231. Continuation and development of the melodic, rhythmic, and musicianship skills acquired in MUS 218. Required for music majors. Offered every spring.

**MUS 220 TECHNOLOGY APPLICATIONS FOR MUSIC EDUCATION**

2, 2/0

Students gain knowledge of current technology applications suitable for music instruction, including administrative applications, software for notation and composition, and MIDI-based sequencing, as well as teaching methods and strategies for using technology in music classrooms and ensembles; incorporates extensive hands-on activities. Offered every spring.

**MUS 223 SACRED MUSIC IN WESTERN SOCIETY**

3, 3/0; HU14

Examines the creation, use, influence and position of sacred music throughout the course of Western history; Analyze how this music reflects the cultural values of the society in which it was created and also demonstrates the beliefs and attitudes of the various institutions that supported its creation and provided the context for its performance; Explore how the understanding of this repertoire may be made more meaningful by reflective personal experience and inspire a broader awareness of humanity. Offered every semester.

**MUS 224 MUSIC AND POLITICAL ACTION**

3, 3/0; WC14

Prerequisites: CWP 101 and CWP 102. Chronological overview of significant political, social, military, and religious events and along with the music associated with those important events. Students will be introduced to various composers, musical styles, musical forms and musical selections as they directly relate to historically significant circumstances, events, and movements within World and American History. While previous musical experience is helpful, it is not required. Offered every semester.

**MUS 230 MUSIC THEORY I**

3, 3/0

Prerequisite: Music Majors only. Corequisite: MUS 218. Fundamentals of music, including notation, scales, modes, tonality, key signatures, intervals, basic chords, basic harmony, voice leading, melodic structures, and the general stylistic features of the various epochs of Western music. Required for Music Majors. Offered every fall.

**MUS 231 MUSIC THEORY II**

3, 3/0

Prerequisites: MUS 230 and MUS 218. Corequisite: MUS 219. Continuation of the fundamentals of music, with emphasis on harmony, voice leading, and simple formal structures within the contexts of the various historical periods of Western music. Required for music majors. Offered every spring.

**MUS 261 CLASS PIANO III**

1, 0/2

Prerequisite: C or better in MUS 162 or audition. This course and MUS 262 are designed for music students who are working toward successful completion of the musicianship exam. The skills developed are those used by music educators in the elementary or secondary classroom: Sight reading, melody harmonization, accompanying, score reading, and improvisation. Offered every semester.

**MUS 262 CLASS PIANO IV**

1, 0/2

Prerequisite: C or better in MUS 261 or audition. Continuation of the skills acquired in MUS 261. Offered every semester.

**MUS 271 APPLIED MUSIC**

1, 1/0

Prerequisite: Music Majors only and audition. Individual lessons for voice or instrument. Required for music majors. Private lesson fee possible. Concert attendance required. Offered every semester.

**MUS 273 APPLIED MUSIC**

1, 1/0

Prerequisite: Music Majors only and audition. Individual lessons for voice or instrument. Required for music majors. Private lesson fee possible. Concert attendance required. Offered every semester.

**MUS 290 PHILHARMONIA ORCHESTRA**

1, 1/0; AR14

Prerequisite: Audition. Participation in the Buffalo State College Philharmonia Orchestra, a college-community ensemble composed of qualified Buffalo State student musicians and experienced community musicians. The orchestra serves as the principal vehicle for increasing students' awareness of symphonic repertoire, orchestral excerpts, and performance protocol as directly related to an orchestral ensemble. Repertoire is planned and organized to provide students with a diverse exposure to important classical, pops, and seasonal programming. May be repeated. Offered every semester.

**MUS 295 SPECIAL PROJECT**

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**MUS 302 MUSIC HISTORY: ANTIQUITY THROUGH BAROQUE**

3, 3/0

Prerequisite: One theory course or permission of instructor. Listening, identification, analysis, and study of musicological and sociohistorical trends in the medieval, Renaissance, and Baroque style periods. Offered every fall.

**MUS 303 MUSIC HISTORY: CLASSIC THROUGH MODERN**

3, 3/0; CT14, IM14, WIIF

Prerequisites: MUS 302 or instructor permission. Study of musical styles, composers, and genres of the Classical, Romantic, and Modern eras; cultural/social contexts and parallel interdisciplinary developments. Required for music majors. Offered annually.

**MUS 305 MODERN JAZZ**

3, 3/0

Prerequisite: MUS 206. History and development of modern jazz from 1941 to the present. Offered occasionally. Equivalent Course: AAS 304

**MUS 306 URBAN BLUES AND ROCK**

3, 3/0

Prerequisite: MUS 206. Sources and development of the idioms, style, and sound media of this music. Offered occasionally.

**MUS 313 CHAMBER CHOIR**

1, 1/0

Prerequisite: Audition. A select vocal ensemble of mixed voices that studies and performs art music from the medieval through modern genres. Offered every semester.

**MUS 314 WIND ENSEMBLE**

1, 1/0

Prerequisite: Audition for majors and non-majors. Rehearsals and performances include historical and contemporary wind and percussion literature from around the world as well as transcriptions and arrangements of masterpieces from the Renaissance to the present. May be repeated. Offered every semester

### MUS 318 AURAL PERCEPTION III

1, 0/3

Prerequisites: MUS 219 and MUS 231. Corequisite: MUS 330. Continuation and development of the melodic, rhythmic, and musicianship skills acquired in MUS 219. Introduction to harmonic dictation. For advanced music students. Required for music majors. Offered every fall.

### MUS 319 AURAL PERCEPTION IV

1, 0/3

Prerequisites: MUS 330 and MUS 318. Corequisite: MUS 331. Continuation and development of the harmonic, melodic, rhythmic, and musicianship skills acquired in MUS 318. Required for music majors. Offered every spring.

### MUS 321 COMPOSITION, IMPROVISATION AND ARRANGING

2, 3/0

Prerequisite: MUS 331. Class instruction and supervised training in basic instrumental and vocal improvisation, with study of associated notation styles for composition and group performance. Introduction to arranging and standard notation for choir, band, and orchestra. Offered every semester.

### MUS 322 INSTRUMENTAL CONDUCTING

2, 2/0

Prerequisite: Upper-level music major or equivalent. Introduction to the musical and technical aspects of directing and developing an instrumental ensemble. Use of baton, score reading, and observation. Ensemble work. Offered every spring.

### MUS 323 VOCAL JAZZ ENSEMBLE

1, 0/2

Prerequisites: Prerequisites: Audition for majors and non-majors. Study and perform vocal jazz music within an ensemble of 12-16 auditioned musicians. Traditional approached and skills to the performance and study of vocal jazz music will be developed while significantly expanding the student's knowledge of vocal jazz repertoire, performance practice and vocal techniques. May be repeated. Offered every semester."

### MUS 326 JAZZ ENSEMBLE

1-12, 0/0

Prerequisite: Audition. Training and supervised performance in jazz and dance band combination. May be repeated. Offered every semester.

### MUS 330 MUSIC THEORY III

3, 0/0

Prerequisite: MUS 231. Corequisite: MUS 318. Analysis and theoretical understanding of compositional techniques of Western art music of the late seventeenth, eighteenth, and nineteenth centuries. Required for music majors. Offered every fall.

### MUS 331 MUSIC THEORY IV

3, 3/3

Prerequisites: MUS 318 and MUS 330. Corequisite: MUS 319. Analysis and theoretical understanding of compositional techniques of Western art music of the twentieth century. Required for music majors. Offered every spring.

### MUS 332 JAZZ CHAMBER MUSIC

1, 1/0

Prerequisite: Instructor Permission. Study and perform jazz music within an ensemble of 4-9 musicians. Small group jazz performance practice and improvisational skills will be developed while significantly expanding the student's knowledge of standard jazz and American songbook repertoire. Offered every semester.

### MUS 333 CHORAL CONDUCTING

2, 2/0

Prerequisites: MUS 219 and MUS 119. Corequisite: MUS 335 or MUS 313. Fundamentals of rehearsing, developing, and conducting choirs for students with choral and vocal background. May require observation of off-site choral ensemble rehearsals and performances. Required for music education majors. Offered every fall.

### MUS 334 PERCUSSION ENSEMBLE

1, 1/0

Prerequisite: Audition or permission of instructor. An exploration of sophisticated percussion literature by modern composers or transcriptions of other works for percussion instruments. The ensemble performs on standard percussion instruments, such as timpani, marimba, vibraphone, snare drum, tom toms, and other struck objects. May be repeated. Offered every semester.

### MUS 335 BUFFALO STATE COLLEGE CHORALE

1, 0/2

Rehearsal and performance of representative choral music from a diverse repertoire including classical, pop, gospel, spirituals, jazz, folk, and show music. Presentation of the fundamentals of choral singing. May be repeated. Offered every semester.

### MUS 337 STRING ENSEMBLE

1, 1/0

Prerequisite: Audition or permission of instructor. A performing ensemble surveying standard chamber music repertoire for string instruments, such as quartet, quintet, or piano trios. May be repeated. Offered every semester.

### MUS 338 BRASS ENSEMBLE

1, 1/0

Prerequisite: Audition or permission of instructor. Chamber group consisting of trumpets, trombones, French horns, euphoniums, baritones and tubas. Explores body of chamber music written or transcribed for brass instruments. May be repeated. Offered every semester.

### MUS 339 WOODWIND ENSEMBLE

1, 1/0

Prerequisite: Audition or permission of instructor. Chamber group consisting of combinations of woodwind instruments, including clarinet choir, flute quartet, saxophone quartet, mixed trios, quartets, quintets, or larger. Explores body of chamber music written or transcribed for woodwind instruments. May be repeated. Offered every semester.

### MUS 341 CHAMBER MUSIC FOR PIANISTS

1, 2/0

Prerequisites: Music majors only. For piano students who seek to gain experience working in small and large ensemble settings. Students will be assigned to a chamber or large ensemble, and must attend weekly rehearsals and coaching/master class sessions. Offered every semester.



### MUS 342 VOCAL CHAMBER MUSIC

1, 1/0

Prerequisites: Instructor permission. Focusing on the performance practice, and musical/dramatic/poetic interpretation of vocal chamber music in a small ensemble setting. Offered every semester.

### MUS 345 ELEMENTARY MUSIC METHODS

3, 3/0

Prerequisites: Permission of instructor; music education interview. Gain knowledge and skills in the areas of teaching methods and strategies for elementary music education; extensive hands-on and writing activities. Offered every fall.

### MUS 346 FIELD EXPERIENCE IN ELEMENTARY MUSIC

1, 0/0

Corequisite: MUS 345. Observation and application of instructional procedures learned in MUS 345 through on-site participation in local schools. Offered fall only.

### MUS 347 THE HISTORY OF PSALMODY

3, 3/0

A comprehensive survey of music based on the texts of the Biblical Book of Psalms. Analyses of the origins, literary structures, content and organization of the psalms; the development of various music performance practices; the tracing of the historical musical development of their settings; and the past and continuing influence of this repertoire on the cultural development of Western Civilization. Offered fall only.

### MUS 349 WEST AFRICAN DRUMMING ENSEMBLE

1, 1/0

Prerequisite: Instructor permission. Introduction to traditional West African rhythms on djembes, dundun drums, and iron bells. Students explore cultural contexts and learn to give and respond to rhythmic signals, learn to play different rhythms simultaneously, and learn culturally and rhythmically appropriate improvisation techniques. Offered every semester. Equivalent Course: AAS 349

### MUS 351 THE AMERICAN MUSICAL

3, 3/0

Historical study of the American musical focusing on the interrelationship between the disciplines of music, theatre, and dance. Offered occasionally.

### MUS 353 FIELD EXPERIENCE IN MUSIC FOR EXCEPTIONAL LEARNERS

1, 0/0

Corequisite: MUS 345. Observation and application of adaptations and instructional procedures appropriate for music with exceptional learners through on-site participation in local schools. Offered during J Term.

### MUS 360 SECONDARY INSTRUMENTAL MUSIC METHODS

3, 3/0

Prerequisites: MUS 345, MUS 362. Knowledge and skills in the areas of teaching methods and strategies for secondary instrumental music education; includes extensive hands-on and writing activities. Offered every fall.

### MUS 361 FIELD EXPERIENCE IN SECONDARY INSTRUMENTAL MUSIC

1, 0/0

Prerequisite: MUS 362 or permission of instructor. Corequisite: MUS 360. Observation and application of instructional procedures learned in MUS 360 through on-site participation in local schools. Offered fall only.

### MUS 362 SECONDARY CHORAL METHODS

3, 3/0

Prerequisite: MUS 345 or permission of instructor. Corequisite: MUS 363. Gain knowledge and skills in the areas of teaching methods and strategies for secondary choral music education; extensive hands-on and writing activities. Offered every spring.

### MUS 363 FIELD EXPERIENCE IN SECONDARY CHORAL MUSIC

1, 0/0

Prerequisite: MUS 345 or permission of instructor. Corequisite: MUS 362. Observation and application of instructional procedures learned in MUS 362 through on-site participation in local schools. Offered spring only.

### MUS 364 FIELD EXPERIENCE IN COMMUNITY MUSIC

1, 0/0

Prerequisite: Instructor Permission. Develop pedagogical skill and knowledge through teaching in an after-school music program. Working closely with a mentor, students will gain valuable pre-service teaching experience as they prepare for student teaching and careers as music educators. Offered every spring.

### MUS 365 INTRODUCTION TO EARLY CHILDHOOD MUSIC AND MOVEMENT

3, 2/0

Prerequisites: Instructor Permission. Exploring the methods used to guide young children's music and movement development within a wide variety of early childhood music education settings. Field placement activities that support course objectives are required, approximately 12-15 hours. Offered annually.

### MUS 371 APPLIED MUSIC

1-2, 1/0

Prerequisite: Music Major only and audition. Individual lessons for voice or instrument. Required for music education majors. Private lesson fee possible. Concert attendance required. Offered every semester.

### MUS 373 APPLIED MUSIC

1-2, 1/0

Prerequisite: Music Major and audition. Individual lessons for voice or instrument. Required for music education majors. Private lesson fee possible. Concert attendance required. Offered every semester.

### MUS 389 TOPIC COURSE

1-9, 0/0

Course offered periodically on various topics related to Music, Music Education, Music Performance, Music Pedagogy, Music History, Music Theory, or other areas of study related to Music. Offered as needed.

### MUS 410 RECITAL ACCOMPANIST

1, 0/1

Co-requisites: MUS 110 and MUS 171,173,271,273,371,373,471, or 473 applied lessons. For students enrolled in the applied music lesson sequence and preparing for a recital. Meet and rehearse privately with a staff piano accompanist. Emphasis on preparation for performance, solo and ensemble performance techniques, and musical interpretation. Offered every semester.

**MUS 422 SEMINAR IN MUSIC LEADERSHIP,  
MANAGEMENT, AND ADMINISTRATION**

3, 3/0

Prerequisite: MUS 273. Seminar course in theoretical and applied concepts of leadership, management, and administration for musicians and music educators. Case studies, frameworks, and practical scenarios of music classrooms, orchestras, and community arts organizations will be presented, discussed, researched, and analyzed.

**MUS 440 ETHNOMUSICOLOGY**

3, 3/0; CT14, IM14, WIIF

Prerequisites: MUS 302 and MUS 303 or instructor permission. Case studies, readings, lectures, audio examples, and hands-on class participation, with emphasis on theories and methodologies of world music study as an aspect of human culture; independent research and public presentation. Required for music majors. Offered annually.

**MUS 457 STUDENT TEACHING IN ELEMENTARY  
MUSIC**

5, 0/0

Prerequisites: Successful completion of all music coursework, including 100 documented observation hours, the piano proficiency exam, the Music Department Student Teaching Application, and Criteria for Student Teaching. Corequisites: MUS 458 and MUS 460. Supervised full-time teaching internship for a half semester in an elementary school setting. Required culminating experience for music education majors seeking New York State certification. Offered every semester.

**MUS 458 STUDENT TEACHING IN SECONDARY MUSIC**

5, 0/0

Prerequisites: Successful completion of all music coursework, including 100 documented observation hours, the piano proficiency exam, the Music Department Student Teaching Application, and Criteria for Student Teaching. Corequisites: MUS 457 and MUS 460. Supervised full-time teaching internship for a half semester in a middle or high school setting. Required culminating experience for music education majors seeking New York State certification. Offered every semester.

**MUS 460 STUDENT TEACHING SEMINAR**

2, 2/0

Prerequisites: Permission of instructor. Corequisites: MUS 457 and MUS 458. Study of current issues in music education and the challenges of the beginning teaching experience. Students will participate in weekly discussions centered on such topics as music education philosophy in action; curriculum development and evaluation; assessment of musical behaviors; discipline (prevention and intervention); time management; and meeting state and national standards in music. Offered every semester.

**MUS 471 APPLIED MUSIC**

1-2, 1/0

Prerequisite: Music Major and audition. Individual lessons for voice or instrument. Required for music education majors. Private lesson fee possible. Concert attendance required. Offered every semester.

**MUS 473 APPLIED MUSIC**

1, 1/0

Prerequisite: Music Major and audition. Individual lessons for voice or instrument. Private lesson fee possible. Concert attendance required. Offered every semester.

**MUS 488 INTERNSHIP**

1-6, 0/0

Prerequisites: Permission of Internship Coordinator; Minimum 2.5 GPA in Major, Minimum 2.0 GPA Overall. Guided and supervised exposure to professional artistic administration and/or operations through on-the-job work experience in an authorized administrative, business, or performance setting. Will write a written report of the work experience based on journal entries, and receive written evaluations from the Internship Site Supervisor and Internship Coordinator. Offered every semester.

**MUS 491 CAPSTONE IN MUSIC**

1-3, 0/0

Prerequisite: MUS 273 and permission of the instructor. Independent capstone project under the direction of an instructor.

**MUS 495 SPECIAL PROJECT**

1-3, 0/0

Prerequisite: Permission of instructor. Required for B.A. music students in the final semester of study. For current music B.A. capstone guidelines, contact department. Offered every semester.

**MUS 499 INDEPENDENT STUDY**

3-12, 0/0

Offered every semester.

## National Student Exchange (NSE)

**NSE 100 NATIONAL STUDENT EXCHANGE**

1-18, 0/0

National Student Exchange.

**NSE 105 NATIONAL STUDENT EXCHANGE**

1-18, 0/0

National Student Exchange.

**NSE 300 NATIONAL STUDENT EXCHANGE**

1-18, 0/0

National Student Exchange.

**NSE 305 NATIONAL STUDENT EXCHANGE**

1-18, 0/0

National Student Exchange.

## Philosophy (PHI)

**PHI 101 INTRODUCTION TO PHILOSOPHY**

3, 3/0; HU14

Introduction to the literature and problems of philosophy. Offered every semester.

**PHI 102 INTRODUCTION TO ETHICS**

3, 3/0; HU14

Various views of how we ought to live and how society should be organized, considered in the context of discussions about the "good" life and the "good" society. Offered every semester.

**PHI 103 INTRODUCTION TO LOGIC**

3, 3/0

Introduction to practical reasoning and argumentation relevant to everyday life; recognition, classification, evaluation, and construction of everyday arguments. Offered alternate years.

**PHI 107 INTRODUCTION TO MATHEMATICAL LOGIC**  
3, 3/0; MQ14

Prerequisite: Basic proficiency in mathematics as specified by the requirements for the Mathematics and Quantitative Reasoning component of Intellectual Foundations. Introduction to two types of mathematical models for assessing the correctness of reasoning. Venn diagrams discussed as geometric mathematical models for assessing categorical syllogisms. Sentential logic and monadic predicate logic discussed as systems of algebraic mathematical models for assessing the reasoning associated with these systems. Offered alternate years.

**PHI 110 THE MEANING OF LIFE**  
3, 3/0; HU14

Exploration of a number of fundamental philosophical questions that make their way into everyday life, specifically related to the question, "What is the meaning of (my) life?" or its Socratic equivalent, "How ought I to live?" Critical analysis of classical and contemporary works-philosophical and autobiographical-to develop clearer, more informed, and better-reasoned views about the questions, if not the answers. Offered alternate years.

**PHI 111 ETHICS FOR SCIENTISTS**  
3, 3/0; HU14

Introduction to philosophical ethics with special emphasis on issues pertaining to science. Ethical theories and ethical implications of scientific discoveries. Evolution and ethics, human nature, the fact-value distinction. May include selected topics in applied ethics, e.g. personhood, environmental ethics, bioethics. Offered annually.

**PHI 112 ETHICS FOR BUSINESS**  
3, 3/0; HU14

Introduction to philosophical and business ethics. Fundamental concepts in business ethics and their application to contemporary ethical issues in business. Opportunities and problems of capitalism, globalization, responsibilities of corporations, rights and duties of employees, ethical leadership. Offered annually.

**PHI 113 ENVIRONMENTAL ETHICS**  
3, 3/0; HU14

Introduction to environmental ethics. Ethical theories and ethical implications of human interactions with the environment. Issues such as sustainability, environmental justice, preservation, the value of species. Offered occasionally.

**PHI 115 MINDS AND MACHINES**  
3, 3/0; HU14

Introduction to questions in the study of the philosophy of mind. Explores the difficulties of studying the mind and limitations of scientific investigation into the mind, including using data-processing machines as a model of the mind; the problem of other minds; questions regarding free will; what it means to be conscious; the claims of weak and strong A.I.; and the possibility of consciousness or intelligence in animals, in the natural world, and in machines. Offered occasionally.

**PHI 189 TOPIC COURSE**  
1-3, 0/0

Current topics in Philosophy. Offered occasionally.

**PHI 204 PHILOSOPHY OF RELIGION**  
3, 3/0

Critical analysis of the philosophical assumptions that support religious belief. Focus on problems arising from philosophical assumptions such as the existence of God, omnipotence, omniscience, foreknowledge, and the existence of evil. Offered alternate years.

**PHI 207 PHILOSOPHY IN LITERATURE**  
3, 3/0

The relationship of philosophy to literature through a consideration of the nature of language, the methods of language analysis, the relation of knowledge to fiction, and the function of myth and metaphor in presenting philosophical ideas. Offered alternate years.

**PHI 210 EXISTENTIALISM**  
3, 3/0

The problem of the meaning and value of life considered in a context of various philosophical and literary works of religious and nonreligious existentialists, including Kierkegaard, Nietzsche, Heidegger, and Sartre. Offered alternate years.

**PHI 221 PHILOSOPHY AND YOGA**  
3, 3/0

Introduction to Indian philosophy through the study of the theory in and the practice of yoga. Examination of the eight limbs of yoga, as well as the practice of yoga as a whole, including the more familiar part popular in the U.S. Description of and examination of the other seven limbs. Philosophical issues such as the nature of the self, the nature of reality, the correct forms of knowledge, and what it means to be good, among others, from the perspective of this tradition. Offered annually.

**PHI 295 SPECIAL PROJECT**  
1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**PHI 300 PROBLEMS OF PHILOSOPHY**  
3, 3/0

Selected problems in epistemology, metaphysics, ethics, and certain movements in contemporary philosophy. Offered occasionally.

**PHI 301 JUSTICE: LIBERTY VS. EQUALITY**  
3, 3/0; WC14

Prerequisite: Upper-division status or one course in philosophy. Examination of moral presuppositions and justifications of forms of government and economic systems, as well as interrelations between government and economics. Offered occasionally.

**PHI 302 PHILOSOPHY OF ART AND BEAUTY**  
3, 3/0

Prerequisite: Upper-division status or one course in philosophy. The basic concepts presupposed in any critical examination of the arts, including painting, literature, and music. Offered occasionally.

**PHI 304 PHILOSOPHY OF LAW**  
3, 3/0

Prerequisite: Upper-division status or one course in philosophy. The nature and justification of legal institutions; emphasis on the problem of legal punishment and on the legal enforcement of morality. Offered occasionally.

### PHI 305 PHILOSOPHY OF LANGUAGE

3, 3/0

Prerequisite: Upper-division status or one course in philosophy. Recent works by analytical philosophers in the foundations of language; meaning, reference, and necessity. Offered occasionally.

### PHI 307 SYMBOLIC LOGIC

3, 3/0

Prerequisites: PHI 107 or Instructor Permission. First-order logic with identity and its uses in evaluating ordinary language arguments. Syntax, semantics, and system of natural deduction. Offered occasionally.

### PHI 308 PHILOSOPHY OF LOVE AND SEX

3, 3/0

Prerequisites: Upper-division status or one course in philosophy. Classic and contemporary philosophic theories of the nature, value, and purpose of human love and sexuality; discussions of Plato, Aquinas, Ortega, Sartre, and Kierkegaard; value judgments implicit in the concepts of "supervision," "good sex," and "true love," as well as problems encountered in finding clear definitions for such terms; considers certain moral arguments found in such areas as abortion and marital intercourse. Offered occasionally.

### PHI 309 KNOWLEDGE AND JUSTIFICATION

3, 3/0

Prerequisites: One PHI course or Instructor Permission. Investigation of knowledge and justification; topics may include perception, memory, consciousness, reason, and testimony as sources of knowledge and justification, the nature, structure, and scope of knowledge and justification, and skepticism. Offered occasionally.

### PHI 310 HISTORY OF ETHICS

3, 3/0; WC14

Prerequisite: Upper-division status or one course in philosophy. Historical study of the writings of great Western philosophers as they examine ethical questions about self-interest, freedom, duty, and happiness in regard to the moral life. Includes Plato, Aristotle, Kant, Mill, and Hume. Offered annually.

### PHI 312 PHILOSOPHY OF MIND

3, 3/0

Prerequisites: One PHI course or Instructor Permission. Investigation of the mind-body problem; Cartesian dualism, logical behaviorism, the identity theory, functionalism, eliminative materialism, property dualism, qualia, and intentionality. Offered alternate years.

### PHI 314 RIGHTS AND RESPECT

3, 3/0

Prerequisite: Upper-division status or one course in philosophy. Historical and analytical study of important developments in twentieth-century ethical theory; naturalism, noncognitivism, prescriptivism, rationalism; the ideas of Rawls, Nozick, Gauthier, and Gewirth. Offered occasionally.

### PHI 317 PLATO AND ARISTOTLE

3, 3/0; WIIF

Prerequisites: Upper-division status or one course in PHI. Readings in selected primary texts (in translation) of significant philosophers of Ancient Greece and Rome. Particular emphasis on Plato and Aristotle and their contribution to the intellectual development of Western thought. Offered fall only.

### PHI 318 DESCARTES TO KANT

3, 3/0

Prerequisites: PHI 317. Readings in selected primary texts from modern philosophers such as Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant; focus on the original visionary contribution of each thinker to the intellectual development of Western thought; learning to read a philosophical work. Offered spring only.

Equivalent Course: PHI 318W

### PHI 324 ZEN BUDDHISM

3, 3/0; WIIF

Prerequisite: Upper-division status or one course in philosophy. Zen as a paradoxical method by which suffering of existence is transformed into everyday enlightenment; contemporary practices of Zen and its historical origins in Buddha's "complete and unexcelled" enlightenment and in Lao-tzu's living in harmony with the Tao. Offered occasionally.

### PHI 333 PHILOSOPHY OF NATURAL SCIENCES

3, 3/0

Prerequisites: CWP 102. The structure and nature of science. Epistemological and ontological implications of scientific theories (e.g. quantum mechanics, evolutionary biology). The role of evidence, confirmation, falsification in science. Offered occasionally.

### PHI 334 PHILOSOPHY OF SOCIAL SCIENCES

3, 3/0

Prerequisites: CWP 102. The structure and nature of the social sciences. Epistemological and ontological implications of social scientific theories. Analysis of socially constructed facts and institutions. Rational-choice and decision-theory models of explanation. Offered occasionally.

### PHI 335 GOD AND RELIGION

3, 3/0

Prerequisites: One PHI course. Application of philosophical reasoning and methodology to matters concerning God and religion. Traditional proofs of God's existence and critiques of these proofs; the problem of evil and various responses to this problem; alternatives to the traditional proofs; differences between faith and reason; and defenses and critiques of religious worldviews. Offered every third semester.

### PHI 347 WORLD OF SOCRATES

3, 3/0; WC14

Prerequisites: CWP 101 and CWP 102. The development of Hellenic and Hellenistic thought and its influence on the modern world. Examination of tensions between naturalistic, conventional, and religious worldviews. Special emphasis on the role such tensions played in the development of philosophy. Offered alternate years.

### PHI 351 ETHICS BOWL

3, 3/0

Prerequisite: One PHI course or instructor permission. Preparation for a competition in which students are judged on their ability to deploy intricate ethical reasoning in addressing case studies from practical and professional ethics. Students develop well-informed opinions about ethically complex, everyday scenarios, orally present these opinions and supporting arguments, and provide critical oral responses to the opinions and arguments of other students and judges. Some students compete in the regional and/or national Intercollegiate Ethics Bowl, others in the Buffalo State Ethics Bowl. Offered occasionally.

### PHI 360 AFRICANA PHILOSOPHY

3, 3/0

Prerequisites: One PHI or AAS course. Philosophical thought across the African diaspora. Both historic and contemporary responses to issues specific to the Black experience across the globe, such as understanding freedom, rationality, and humanity from the position of the formerly enslaved and/or colonized, and analysis regarding the intersections of race, gender, and white supremacy. Offered every spring.

Equivalent Course: AAS 360

### PHI 361 RACE AND PROGRESS

3, 3/0; DI14

African American philosophical thought with a specific focus on the concept of progress. Both historic and contemporary responses to issues specific to the African American experience, such as understanding the concepts of race and racism, social and political forces required to generate progress, and the limits of progress within the Black community. Offered fall semester only.

Equivalent Course: AAS 361

### PHI 389 TOPIC COURSE

3, 0/0

Current topics in Philosophy. Offered occasionally.

### PHI 401 PROBLEMS IN PHILOSOPHY SEMINAR

3, 3/0; CT14, IM14, WIIF

Prerequisites: CWP 102, and upper-division status or one PHI course. Intensive analysis of selected topics in philosophy. Offered annually.

### PHI 402 SEMINAR IN HISTORY OF PHILOSOPHY

3, 3/0; CT14, IM14, WIIF

Prerequisites: CWP 102, PHI 317, and PHI 318. Intensive study of particular figures or periods in the history of philosophy. Offered occasionally.

### PHI 495 SPECIAL PROJECT

1-3, 0/0

Offered occasionally.

### PHI 498 HONORS RESEARCH

1-3, 0/0

Offered occasionally.

### PHI 499 INDEPENDENT STUDY

3-12, 0/0

Offered occasionally.

## Physics (PHY)

### PHY 100 PHYSICS FOR NON-SCIENCE MAJORS

3, 3/0; NS14

A non-mathematical consideration of historical world views in physics and their relevance to society. May not be substituted for PHY 107, PHY 108, PHY 111, or PHY 112. Not open to physics majors. Offered every semester.

### PHY 103 UNDERSTANDING SOUND

3, 2/2; NS14

The basics of sound, intended for non-science majors. Wave characteristics and behavior, applied to sonic phenomena. Interfaces of sound with humans and society (music, hearing, sound production and recording). Offered every semester.

### PHY 104 PHYSICS FOR K-8 TEACHERS

3, 2/2; NS14

Prerequisite: Acceptance to Pre-K-8 teaching majors or pre-majors. High school algebra and writing. Nature of science, energy transfer, force interactions, systems, Newton's Laws, magnetic, gravitational, light, and thermal interactions, conservation of energy, and simple circuits as appropriate for teachers of K-8 science. Meets National Science Education Standards S (NRC) and the New York State Education Department (NYSED) learning standards for Math Science and Technology and elementary and intermediate physical standards (Standard 4). Inquiry-based classroom co-mingles laboratory with lecture. Offered every semester.

### PHY 107 GENERAL PHYSICS I

4, 3/2; NS14

Algebra-based study of mechanics, measurement, kinematics, Newton's laws, gravity, conservation of energy and momentum, and rotation; laboratory. Offered every semester.

### PHY 108 GENERAL PHYSICS II

4, 3/2

Prerequisite: PHY 107. Algebra-based study of electricity and magnetism: static electricity (including electricity fields and potential), current electricity and circuits, magnetism and electromagnetic interactions; laboratory. Offered every semester.

### PHY 111 UNIVERSITY PHYSICS I

5, 4/2; NS14

Corequisites: MAT 161 and MAT 163. Calculus-based treatment for science majors of particle motion, kinematics, mechanics, Newtonian dynamics, energy transformation, conservation laws of energy and momentum, gravitation and rotation; laboratory. Required for majors. Offered every semester.

### PHY 112 UNIVERSITY PHYSICS II

5, 4/2

Prerequisite: PHY 111 or equivalent. Corequisites: MAT 162 and MAT 164. Continuation of PHY 111. Calculus-based introduction to heat, electricity, magnetism, and optics; laboratory. Required for physics majors. Offered every semester.

### PHY 189 TOPICS COURSE

1-3, 1/0

Offered occasionally.

### PHY 213 UNIVERSITY PHYSICS III

3, 3/0

Prerequisites: PHY 108 or PHY 112. Continuation of PHY 112. A calculus-based introduction to wave motion, physical optics, interference and diffraction phenomena, thermodynamics, and the kinetic theory of gases. Offered in the fall semester.

### PHY 214 OPTICS AND HEAT LABORATORY

1, 0/2

Prerequisites: PHY 108 or PHY 112. Performing basic physics experiments chosen from the areas of optics, heat, and thermodynamics. Students carry out experiments; acquire, analyze, and interpret experimental data; write lab reports in a standard scientific format. Offered annually each fall semester.

### PHY 295 RESEARCH EXPERIENCE IN PHYSICS

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**PHY 304 OPTICS AND VISION FOR TEACHERS AND ARTISTS**

3, 2/2

Prerequisites: Any college or high school introductory physics course; CWP 101; any first-year MAT or instructor permission. Phenomena of light, vision, color, and photography, as appropriate for teachers of science and visual arts majors. Meets the National Science Education Standards S (NRC) and the New York State Education Department (NYSED) learning standards for Math, Science and Technology and elementary and intermediate physical setting standards (Standard 4). Inquiry-based classroom combines laboratory with lecture using handheld apparatus and demonstrations in the lecture theater and take-home laboratory activities using everyday materials. Can be used as a sequence with PHY 104. Offered occasionally.

**PHY 305 MODERN PHYSICS I**

3, 3/0

Prerequisites: PHY 213, CHE 112, MAT 263/264 (or corequisite) or instructor permission. Introduction to Special Relativity, the Bohr model of the atom, wave-particle duality, introduction to quantum mechanics, applications of quantum mechanics to the atoms. Offered in the spring semester each year.

**PHY 306 MODERN PHYSICS II**

3, 0/0

Prerequisites: PHY 305 or instructor permission. Continuation of PHY 305. Features of atomic spectra and their explanation in terms of magnetic properties; differences between classical and quantum statistical distributions and their origins; structural features of molecules; how properties of solids are determined by quantum statistics; properties of nuclei, including stability and different decay modes. Offered in the fall semester each year.

**PHY 308 OPTICS**

3, 3/0

Prerequisites: MAT 263, PHY 112 or equivalent. Fundamentals of geometrical and physical optics; the nature and propagation of light; Fraunhofer and Fresnel diffraction, polarization; single, double slit and grating diffraction, lasers, and holography. Offered occasionally.

**PHY 310 COMPUTATIONAL PHYSICS LABORATORY**

3, 1/4; CT14, IM14, WIIF

Prerequisites: PHY 107 or PHY111. Introduction to basic computational techniques using physics material from intermediate-level courses. Required for physics majors. Offered fall only.

**PHY 315 HEAT AND THERMODYNAMICS**

3, 3/0

Prerequisites: MAT 263, PHY 112 or equivalent. First, second laws; entropy; chemical potential; enthalpy; free energy; Gibbs function; Maxwell relations; phase transitions; and statistical mechanics of classical and quantum distributions. Offered occasionally.

**PHY 320 INTRODUCTION TO THEORETICAL PHYSICS**

4, 4/0

Prerequisites: PHY 111, PHY 112, and MAT 263. Introduction to advanced mathematical applications: partial differential equations, complex numbers, special functions, boundary value problems, orthogonal functions and expansions, matrices, and integral transform techniques. Required for physics majors. Offered spring only.

**PHY 323 STATICS**

3, 3/0

Prerequisites: PHY 112. Application of mechanics to the study of static equilibrium of rigid and elastic bodies. Includes composition and resolution of forces; moments and couples; equivalent force systems, free-body diagrams; equilibrium of particles and rigid bodies; forces in trusses and beams; friction forces; first and second moments of area; moments and product of inertia; methods of virtual work and total potential energy. Offered occasionally.

**PHY 324 ELECTRIC CIRCUIT ANALYSIS**

3, 2/2; WIIF

Prerequisites: PHY 108 or PHY 112. Calculus-based treatment of DC and AC circuits with introduction to commonly used analysis methods; laboratory. Offered fall only.

**PHY 340 NONLINEAR DYNAMICS AND CHAOS**

3, 3/0

Prerequisites: PHY 310 and PHY 320 or instructor permission. Introduction to nonlinear mechanics in one, two and three dimensions. Bifurcations, phase planes, fixed points, limit cycles, fractals, chaos and strange attractors. Applications to many areas of science such as weather prediction, lasers, vibrational instabilities, and population variations of predators and prey. Offered occasionally.

**PHY 389 TOPICS IN PHYSICS**

1-3, 3/0

Prerequisite: Instructor permission. Current topics not covered in the courses regularly offered. Offered occasionally

**PHY 410 ADVANCED PHYSICS LABORATORY**

3, 0/6; WIIF

Prerequisite: PHY 305 or equivalent. Selected advanced experiments chosen from the areas of mechanics, thermal physics, sound, optics, electricity and magnetism, and modern physics. Offered spring only.

**PHY 425 CLASSICAL MECHANICS**

4, 4/0

Prerequisites: PHY 320 or equivalent and PHY 310. Vectorial particle mechanics in one, two, and three dimensions; rigid body motions in three dimensions; motion in central force fields; moving reference frames; forced harmonic oscillators; and introduction to mechanics in Lagrangian and Hamiltonian formulation. Offered alternate years.

**PHY 435 INTRODUCTION TO QUANTUM MECHANICS**

3, 3/0

Prerequisites: PHY 310, PHY 320, PHY 305 or instructor permission. Postulates of Quantum Mechanics introduced and explored through examples of different model Hamiltonians. Operator formalism and its connection with the application of the Schrödinger equation. Analytical and numerical techniques applied to physical systems in atomic, nuclear and condensed matter physics. Theoretical and experimental investigations of the foundations of Quantum Mechanics and recent applications. Offered in spring semester in alternate years.

**PHY 440 ELECTRICITY AND MAGNETISM I**

3, 3/0

Prerequisite: PHY 310 and PHY 320, or instructor permission. Coulomb forces; electric fields and potentials; Laplace equation; boundary value problems and dielectrics; multipole distributions; magnetic induction; introduction to Maxwell's equations. Offered every alternate fall semester.

PHY 441 ELECTRICITY AND MAGNETISM II  
3, 3/0

Prerequisite: PHY 440, or instructor permission. Continuation of PHY 440. Electric Induction; Maxwell's equations; momentum and energy of electromagnetic fields; propagating waves; radiation; special relativity; relativistic electrodynamics. Offered every alternate spring semester.

PHY 450 SUPERVISED PHYSICS LABORATORY  
TEACHING  
1-2, 0/0

Prerequisites: Physics major; upper-division status; minimum cumulative GPA of 3.0, 3.25 in major coursework; physics faculty permission based on academic performance, maturity, and potential. Supervised in-classroom introduction to college laboratory teaching techniques and procedures for selected upper-division physics majors. Offered occasionally.

PHY 495 SPECIAL PROJECT  
1-3, 0/0

Prerequisite: Faculty sponsor approval. Physics and physics-related areas. Offered occasionally.

PHY 499 INDEPENDENT STUDY  
3, 0/0

Prerequisite: Faculty sponsor approval. Physics and physics-related areas. Offered occasionally.

## Planning (PLN)

PLN 215 INTRODUCTION TO URBAN AND REGIONAL  
PLANNING  
3, 3/0; DI14

Introduction to the practice, history and theory, critical issues, and tools and methods of plan making of urban and regional planning. Topics covered include sustainability, land use, housing, community and neighborhood planning, and transportation. Offered fall only.

PLN 225 PLANNING METHODS  
3, 3/0; IM14, WIIF

Prerequisites: PLN 215. Introduction to urban and regional planning methods and techniques commonly used in plan-making. Methodological skills, including data collection and analysis; survey design; public participation and engagement; the use of technology such as GIS, SketchUp, Google Earth, and Excel; public speaking; and development of technical writing. Offered fall only.

PLN 295 RESEARCH EXPERIENCE IN PLANNING  
1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

PLN 310 URBAN TRANSPORTATION PLANNING  
3, 3/0

Prerequisite: GEG 309 or PLN 215. Comparative study of the modes of transportation, transportation planning, and the benefits and effects of transportation. Emphasis on application to urban transportation. The importance of accessibility to the development of a modern metropolitan transportation system. Offered occasionally.

Equivalent Course: GEG 310

PLN 315 PRINCIPLES OF URBAN AND REGIONAL  
PLANNING

3, 3/0

Prerequisites: PLN 215. Techniques to determine appropriate site design, use of land, and physical development patterns within community planning efforts. Methods to inventory existing land uses, determine locations for future land uses, and examine tools used in the evaluation of sites for development. Offered spring only.

PLN 325 MAPS AND MAPMAKING USING GIS  
3, 3/0

Maps as essential form of communication. Geographic information systems (GIS) tools for creating digital and hardcopy maps. Spatial thinking, concepts, principals and methods of mapmaking; map development and display using technology. Offered every semester.

Equivalent Course: GEG 325

PLN 340 LAND USE PLANNING AND ZONING  
3, 3/0

Prerequisite: PLN 215. Composition and administration of site plan local laws, subdivision regulations, and zoning ordinances and their adoption. Practical and legal relationship between current planning and long-term planning. New York state legislation, including relevant environmental regulations. Offered spring only.

PLN 341 HOUSING AND REAL ESTATE  
3, 3/0

Prerequisite: PLN 215 or Instructor Permission. Housing elements relevant to the professional practice of planning, including the considerations of consumers in selecting communities, neighborhoods and sites; the description, conveyance, and marketable rights associated with real property, forms of home ownership, less conventional housing choices; government policy affecting housing. Investigation of local housing stock, both from the perspective of potential purchaser and historic preservationist. Offered occasionally.

PLN 350 PLANNING FOR SUSTAINABLE COMMUNITIES  
3, 3/0

Prerequisites: PLN215. Theoretical and methodological examination of the role planning plays in creating sustainable communities. Focus on land use and urban design, housing, green buildings, transportation, food systems, and water resources. Relevant plans and policies at varying geographic scales. Measures of sustainability. Offered occasionally.

PLN 360 ENVIRONMENTAL IMPACT ASSESSMENT  
3, 3/0

Prerequisites: Upper-division status and minimum of 9 credit hours in geography, planning, earth science, biology, or related environmental discipline. Introduction to the legislation and technical procedures involved with the development of Environmental Impact Statements (EIS) and Environmental Assessments (EA); emphasizes practical experience in conducting an EA and writing an EIS. Field trip. Offered occasionally.

PLN 370 WATER RESOURCE PLANNING  
3, 3/0

Prerequisite: GEG 375 or GES 452. Introduction to water resource planning in the United States. Emphasis on project management and planning processes used by federal water resources agencies. Field trip and group project required. Offered occasionally.

### PLN 380 NEIGHBORHOOD PLANNING AND COMMUNITY DEVELOPMENT

3, 3/0

Prerequisites: PLN 215. Explores the many forms, methods, and tools of neighborhood planning, community development, and engagement efforts aimed at revitalization in the context of historic and contemporary public and private sector policies and practices that have contributed to current challenges.

Offered occasionally.

### PLN 390 QUANTITATIVE METHODS IN GEOGRAPHY AND PLANNING

3, 3/0

Prerequisites: Upper-division. Introduction to statistical methods with a focus on spatial and time-series data analysis in geography and planning applications. Statistical theory is reinforced through application of commonly used computer software to solve real world problems. Offered spring only.

Equivalent Course: GEG 390

### PLN 396 RESEARCH METHODS

3, 3/0

Prerequisites: GEG 390 OR PLN390, and 6 upper division credits in GEG/PLN courses. Research theories, designs, and methods relevant to conducting research in geography and planning. Research designs and methodologies for approaches with human subjects, human/social geography, physical geography, field-based research, and planning projects. Development of a research project proposal. Offered fall only.

Equivalent Course: GEG 396

### PLN 401 COMPREHENSIVE PLANNING STRATEGIES

3, 3/0

Prerequisites: Upper-division status and PLN 215. The role of comprehensive planning as it influences future patterns of municipal land use. Techniques for identifying issues and reaching consensus on goals for future development. Detailed examination of the process of preparing and adopting a master plan and stakeholder participation, including inter-municipal collaboration. Offered fall only.

### PLN 405 URBAN ANALYSIS USING GIS

3, 3/0

Prerequisites: GEG 309 and GEG 325; or instructor permission. Data and techniques for analyzing urban systems and urban areas using Geographic Information Systems (GIS). Implementation of urban models introduced in GEG 309.

Offered occasionally.

Equivalent Course: GEG 405

### PLN 410 SUSTAINABLE TRANSPORTATION PLANNING

3, 3/0

Prerequisites: PLN 310. Sustainability and transportation. Evolution of transportation planning goals with respect to “three Es” of sustainability (Equity, Ecology, and Economy). Policies and solutions at local, state, and national levels. Methods for impact assessment. Offered occasionally.

### PLN 412 COMMUNITY PLANNING AGENCIES AND ISSUES

3, 3/0

Prerequisite: PLN 315 and GEG 199 or CIS 101 or competence in computing. The role of the professional planner in a range of government and private agencies; introduction to the tools needed by the professional planner; discussion of planning techniques and issues. Emphasis on professional ethics and the function of staff in a variety of planning agencies. Offered occasionally.

### PLN 415 SEMINAR IN PLANNING

3, 3/0

Prerequisite: PLN 315. Investigation, discussion, and research of topics of current interest in planning or economic development; techniques and methods of analysis used in planning process. Topics vary each semester. Offered occasionally.

### PLN 430 SENIOR THESIS

3, 3/0

Prerequisites: GEG/PLN 390 and GEG/PLN 396 C or better and senior geography or planning major. Research in geography or planning and presentation of selected research-related topics. Offered occasionally.

Equivalent Course: GEG 430

### PLN 431 PLANNING PRACTICUM

3, 3/0; CT14, WIIF

Prerequisites: PLN 225 and senior planning major. Capstone experience; students engage in a group project focused on applying specific knowledge and skills gained in the program to a real world planning problem. Utilizes a project-based research approach to identify a problem or issue and develop a plan to address it. Offered spring only.

### PLN 488 INTERNSHIP

1-15, 0/0

Prerequisites: PLN 215 and 6 credit hours of planning coursework at the upper-division level; minimum cumulative and major GPA of 2.5; background of courses or experience within area of interest; adviser and department chair permission. Guided, supervised field experiences that complement the academic program. Offered every semester.

### PLN 495 SPECIAL PROJECT

3, 0/0

Offered occasionally.

### PLN 499 INDEPENDENT STUDY

3, 0/0

Offered occasionally.

## Political Science (PSC)

### PSC 101 INTRODUCTION TO GOVERNMENT AND POLITICS

3, 3/0; SS14

The nature and scope of political science; ideological foundations of politics; comparative study of the governments of constitutional and developing systems; the development and adaptation of democracy; the dynamics of politics and functions of political institutions. Offered every semester and summer.



**PSC 102 INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS**

3, 3/0; AH14

Historical development of American government and politics. Conceptual studies of the key transformative phases of institutions (U.S. Constitution, federalism, Congress, the courts, the presidency), politics (political parties, interest groups, media, social movements), political economy (regulation, federal bureaucracy) and political culture (citizenship and identity, public opinion, political behavior). Offered Every Semester.

**PSC 103 GREAT POLITICAL ISSUES**

3, 3/0; SS14

Examines great political issues such as civic engagement, civil disobedience, democracy, freedom, equality, ideology, identity, law, morality, and political obligation and discusses them in light of their various historical contexts and political implications. Offered occasionally.

**PSC 189 TOPICS IN POLITICAL SCIENCE**

1-3, 1/0

In-depth examination of rapidly changing disciplinary issues, topics, or practices in government and politics; offered occasionally.

**PSC 203 POLITICAL ANALYSIS**

3, 3/0

Prerequisite: PSC 101 or PSC 102. Design, execution, and interpretation of research in the field of political science including quantitative and qualitative research methods, theory building, and constructing and testing hypotheses; data collection techniques including survey research methods. Offered every semester and summer.

**PSC 204 POLITICAL STATISTICS**

3, 3/0

Prerequisite: PSC 101 or PSC 102 and PSC 203. Introduction to quantitative political science research methods, univariate, bivariate and multivariate analysis, statistical inference, sampling, hypothesis testing, measures of association, tests of statistical significance and model assumptions. Offered every semester and summer.

**PSC 210 THE AMERICAN PRESIDENCY**

3, 3/0

The contemporary presidency, constitutional roles, political powers and the factor of personality, the executive and other political and social institutions, problems and prospects for the presidency. Offered at least once a year.

**PSC 215 URBAN GOVERNMENT**

3, 3/0

Introduction to the political economy of urban areas in the United States; focus on explanation of current urban public policies; public vs. private political power, bureaucracy, citizen organization. Offered fall only.

**PSC 218 AFRICAN AMERICAN POLITICAL CULTURE**

3, 3/0

Political beliefs, attitudes, and practices that pertain to African American politics in a cultural context; causality and linkage inherent in the reciprocal relationship between African Americans and the American political system. Offered fall only.

Equivalent Course: AAS 218

**PSC 221 JUDICIAL PROCESS AND POLITICS**

3, 3/0

Detailed examination of the structure of American courts; the procedures and operating norms of judges, lawyers, and litigants; the impact of law on society, and alternative approaches to dispute resolution. Offered occasionally.

**PSC 223 SOCIAL JUSTICE THROUGH THE LAW**

3, 3/0; DI14

Focus on diversity, social justice, public interest, and the law. Investigation of the legal profession's role to advance diversity and social justice along with analysis of structural factors contributing to inequality. power, racism, sexism, social class, and wealth. Analysis of means individuals can work for social justice. Offered occasionally.

**PSC 225 WOMEN IN AMERICAN POLITICS**

3, 3/0; DI14

Influences of female participation in the American political system; the political behavior of American women; the implications of these influences and behaviors. Offered occasionally.

**PSC 230 INTERNATIONAL RELATIONS**

3, 3/0; SS14

Elements of national power, religion, global balance of power and collective security systems; instruments of international politics: diplomacy, propaganda, and war; forces of nationalism. Offered at least once a year.

**PSC 240 EUROPEAN POLITICAL SYSTEMS**

3, 3/0

The structure and dynamics of politics in major European countries with emphasis on political behavior and political processes; issues of economic and political integration. Offered occasionally.

**PSC 250 INTRODUCTION TO LAW**

3, 3/0

Basics of law, the judicial system, courtroom procedures, distinctions between different kinds of law, and the importance of these distinctions. Constitution and rights defined in the Constitution. Responsibilities of attorneys in the judicial system and to their clients. Skills involved in learning and practicing law; writing legal briefs; oral presentation of legal arguments. Offered every semester and summer.

**PSC 302 INTERNATIONAL CONFLICT AND PEACEFUL RESOLUTION**

3, 3/0

Prerequisites: Junior or senior standing. Key theoretical traditions and research in international and intrastate conflict and conflict resolution through in-depth empirical analysis. Offered occasionally.

**PSC 305 ENVIRONMENTAL POLICY**

3, 3/0

Prerequisite: PSC 102 or PSC 230. International public-policy responses to environmental challenges; viewpoints on ecological limits, regulatory responses, and the role of business. Population growth, international climate change, sustainable development, cap-and-trade approaches to pollution reduction, and the correlation between violent conflict and environmental stress. Offered occasionally.

### PSC 306 POLITICS OF ENERGY

3, 3/0

The energy situation in both the United States and the international community from political viewpoints; U.S. energy policy, process, and strategies within their economic, physical, and political settings; conflict and cooperation among nations over the rational use of energy resources. Offered occasionally.

### PSC 308 INTERNATIONAL ORGANIZATIONS AND INTERNATIONAL LAW

3, 3/0; WIIF

Prerequisite: Junior or senior standing or instructor permission. Political and legal viewpoints of international organizations; political and administrative concepts and theories concerning international organizations and law such as roles and effects of international organizations and law in foreign policy making, international cooperation, and competition. Offered occasionally.

### PSC 309 INTERNATIONAL POLITICAL ECONOMY

3, 3/0

Prerequisite: PSC 101 or PSC 102. A political analysis of the global economy. Emphasis on learning and using different theories of international political economy to explore contemporary global economic issues such as trade, trade agreements, monetary policies, and the impact of international finance organizations. Offered occasionally.

### PSC 310 AMERICAN POLITICAL PARTIES

3, 3/0

The American party systems: two-party competition and third party challenges; suffrage rules and electoral processes; changing patterns of party organization, nomination, campaigning, and finance; party identification and voter behavior; the role of parties in governing; parties and the future of American politics. Offered spring only.

### PSC 311 INTEREST GROUPS

3, 3/0

Introduction to the democratic political process, methods and operations of various interest groups; roles of citizens groups. Offered occasionally.

### PSC 312 LEGISLATIVE PROCESS

3, 3/0

State and national legislatures with emphasis on the determinants of legislative decision making, the committee system, and the policy outputs of the legislative branch. Offered spring and summer only.

### PSC 313 CIVIC ENGAGEMENT

3, 3/0

Prerequisites: PSC 101 or PSC 102. Development of an understanding and appreciation of modern, intellectual civic engagement. Overview of the democratic traditions and Constitutional framework that encourages American civic participation. Analysis of past and current citizen campaigns. Evaluation of leadership, external resources, economic conditions, media impact and alternative strategies. Development and presentation of advocacy letters, petitions, position papers and campaign strategies.

### PSC 315 STATE AND LOCAL GOVERNMENT AND POLITICS

3, 3/0

Functions of state and local governments, parties, interest groups, and elections; constitutional and governmental structures; intergovernmental relations; decision making, effects of metropolitanization; contemporary issues and problems; future trends and prospects.

### PSC 316 URBAN ETHNIC POLITICS

3, 3/0

The development of ethnic politics in urban areas of the United States. Political development and conflict among major ethnic, racial, and religious groups, including African Americans, Irish, Italian, Jews, Latinos, Native Americans, and Polish. Contemporary patterns of organization, leadership, strategy, political mobilization; key issues examined, such as affirmative action, school desegregation, and welfare reform. Offered occasionally.

### PSC 317 U.S. CONSTITUTIONAL LAW

3, 3/0

Prerequisite: Junior or senior standing or instructor permission. Foundations of American Constitutionalism; judicial review and its use throughout history; the Supreme Court's interaction with Congress, the president, and the states; evolving concepts of federalism; development of governmental regulation of private property and contracts; the evolution of the principles of constitutional due process and equal protection. Offered fall only.

### PSC 318 DEMOCRACY AND PEACE: PRINCIPLES AND PRACTICES IN THE URBAN EXPERIENCE

3, 3/0

Prerequisite: PSC 101 or PSC 102 or PSC 103. Development of politics, democracy, and justice from the experience of urban communities, particularly in light of economics, peace, and race issues. Offered occasionally.

### PSC 319 GAY, LESBIAN, BISEXUAL, TRANSGENDER, QUESTIONING POLITICS

3, 3/0

Prerequisite: Upper-division status. This course provides a cross-cultural, longitudinal perspective of U.S. GLBTQ movements and interest-based organizations. It examines queer legal theory, human rights, and constitutional issues surrounding GLBTQ rights. The course considers GLBTQ politics in the context of federalism, with examination of federal legislation such as the Defense of Marriage Act and individual state laws with respect to GLBTQ rights. Offered fall only.

### PSC 320 U.S. CIVIL LIBERTIES

3, 3/0

Legal principles influencing the origin and development of our criminal laws and the way these principles have evolved by court interpretation to accommodate social change and attitudes; the Bill of Rights and due process clause of the United States Constitution. Offered spring only.

### PSC 321 CIVIL PROCEDURE

3, 3/0

Prerequisites: Junior or Senior standing. Imparts knowledge of, interest in and an appreciation for the civil litigation process in the federal and state court systems of the United States and provides students with a guided tour of the litigation process including but not limited to: pre-complaint actions, subject and personal jurisdiction, complaints and answers, pre-trial motions, discovery, dispositive motions, trial preparation and organization, jury selection and appeal decisions. Offered occasionally.

### PSC 325 POLITICS OF WELFARE

3, 3/0

America's social insurance and support systems. Major welfare programs including social security, veterans' benefits, tax expenditures, food stamps, subsidized education, and military retirement; the costs and benefits of America's welfare system. Offered occasionally.

### PSC 326 POLITICS AND MEDIA

3, 3/0

The relationship between the mass media and contemporary American politics, its impact on voting behavior, and the role of the media in the presidential and congressional elections. Offered occasionally.

### PSC 327 PRACTICAL POLITICS

3, 3/0

Classroom and extra-classroom experience and interaction with political practitioners; participation in quasi-political organizing, campaigns and elections, and day-to-day operations of government and politics. Offered occasionally.

### PSC 330 AMERICAN FOREIGN POLICY

3, 3/0; WIIF

Prerequisite: PSC102. Basic ideas that shape American foreign policy; isolationism, domestic and international pressures, cold war, peaceful coexistence and détente, major problems. Offered once a year.

### PSC 333 AFRICAN INTERNATIONAL RELATIONS

3, 3/0

African international politics vis-à-vis international relations theory, models, and concepts; power; multipolarity; bipolarity; pan-Africanism; North-South debate; approaches to international politics; and state and international organizations as international actors.

Equivalent Course: AAS 333

### PSC 335 INTERNATIONAL RELATIONS OF THE MIDDLE EAST

3, 3/0

Patterns of interaction within the Middle East and with other states; problems of security and peace in the region; ideology, nationalism, and economic interests as factors influencing the behavior of the states. Offered occasionally.

### PSC 336 LATIN AMERICA IN WORLD POLITICS

3, 3/0

Prerequisite: Upper Division status. Politics in the region of Latin America within the context of international relations theory. Development of the Latin American subsystem; major actors and movements within the region, including human rights and democratization; globalization and free trade; the influence of the United States; and the legacy of colonialism and the Cold War. Offered occasionally.

### PSC 337 POLITICS OF GLOBALIZATION

3, 3/0; NW14

Prerequisites: Upper-division status; PSC 101 or PSC 102. Interdependent global political economy; complex process by which governments, corporations, individuals, and information technology are integrated and interconnected on a global scale; costs vs. benefits of globalization. Offered once a year.

### PSC 338 POLITICS AND HISTORY OF MODERN TERRORISM I

3, 3/0

Prerequisites: Upper-division status or permission of instructor. Politics and history of terrorism from the French Revolution until the end of the Cold War. The first of a two-part course sequence. Broad definitions of terrorism including tyrannicide, state terror, and counterinsurgency. Narrow definitions do not include state actors. Questions of geopolitical, socioeconomic and cultural causation. Current methodology and empirical research of terrorism. Typology of terrorism including historical analysis of racist, nationalist, anarchist and socialist organizations. Focus on controversies about state response regarding legal rights, proceedings, and immigration. Addressing political, social and cultural issues. Offered annually each fall semester. Offered fall semester. Equivalent Course: HIS 347

### PSC 339 POLITICS AND HISTORY OF MODERN TERRORISM II

3, 3/0

Prerequisites: Upper-division status or permission of instructor. History and politics of terrorism from the Cold War until today. The second of a two-part course sequence. Definitions of terrorism. Questions of geopolitical, socioeconomic and cultural causation. Current methodology and empirical research of terrorism. Typology of terrorism. Focus on controversies about state response regarding legal rights, proceedings, immigration and addressing political, social and cultural issues. Offered annually each spring semester.

Equivalent Course: HIS 348

### PSC 340 POLITICS OF DEVELOPING COUNTRIES

3, 3/0; NW14

Prerequisite: PSC 101 or PSC 230. Problems of developing countries, political process, and its relation to societal transformation; the role of the army and bureaucracy in political development; problems of nation-building and democracy in developing countries; and globalization. Offered once a year.

### PSC 341 GOVERNMENT, POLITICS, AND POLICIES OF THE EUROPEAN UNION

3, 3/0

Prerequisites: Upper-division status; PSC 101 or PSC 102 or PSC 240. Government, politics, and policies of the European Union. Origins and development of European integration, European identity, theories of economic and political integration, treaties and law-making, institutions and decision-making, internal and external policies and policy-making. Offered occasionally.

### PSC 342 RUSSIAN POLITICS

3, 3/0

Prerequisite: PSC 101 or instructor permission. Theory and practice of Russian political institutions and processes in light of Russian history; Soviet efforts to redirect that history; current political, social, and economic changes in Russia today. Offered occasionally.

### PSC 344 COMPARATIVE DEMOCRACY

3, 3/0

Prerequisites: PSC101 or PSC 230 or by Instructor Permission. Examines the history and development of democracy with strong emphasis on comparing and analyzing various forms of democracy found throughout the Western and Non-Western world in the late 20th and early 21st centuries. Offered occasionally.

### PSC 345 POLITICS AND HISTORY OF THE MIDDLE EAST

3, 3/0

Geographic, cultural, and political settings; historical development since the nineteenth century; the disintegration of the Ottoman Empire and Western colonialism; nationalism, independence, and turmoil; Arab-Israeli question; oil and its impact and problems; great power and inter-area politics. Offered occasionally.

Equivalent Course: HIS 313

### PSC 351 HISTORY OF POLITICAL THOUGHT I

3, 3/0; WC14, WIIF

Prerequisite: PSC 101 or PSC 103. Main problems of political theory examined through the writings of major political thinkers from Plato to Aquinas. Offered fall only.

### PSC 352 HISTORY OF POLITICAL THOUGHT II

3, 3/0; WC14, WIIF

Prerequisite: PSC 101 or PSC 103. Main problems of political theory examined through the writings of major political thinkers from Machiavelli to Rawls. Offered spring only.

### PSC 355 AMERICAN POLITICAL THOUGHT

3, 3/0

American political thought from colonial to contemporary time; the development of persistent political values and beliefs, how interpretations and applications of these values and beliefs have changed through different periods; the roots of contemporary American political culture and ideology.

### PSC 360 PUBLIC ADMINISTRATION

3, 3/0

Introduction to public administration: analysis of government administration in its social, economic, and political settings; the role of public administration in formulating public policy; organization and management in public services; personnel and financial management. Offered fall only.

Equivalent Course: PAD 360

### PSC 364 AMERICAN PUBLIC POLICY

3, 3/0

Governmental policy with emphasis on the sources of policy, the policy-making process in national political institutions, and the social impact of policy choices. Offered fall only.

### PSC 368 COMPARATIVE PUBLIC ADMINISTRATION

3, 3/0

Introduction to cross-cultural, cross-national, or cross-institutional study of public administration institutions and practices; the administrative systems of European countries and the processes of administrative change in developing countries; the evolution of bureaucracy. Offered spring only.

Equivalent Course: PAD 368

### PSC 370 CANADIAN PUBLIC ADMINISTRATION

3, 3/0

Canadian public administration institutions and processes and the development of public policy; the federal level; secondary attention to provincial and local administration and policy; similarities and differences with other administrative systems, especially the United States. Offered occasionally.

Equivalent Course: PAD 370

### PSC 375 RACE, SEX, AND POLITICS OF MYTH AND STORY

3, 3/0

Prerequisites: Upper-division status and successful completion of English basic skills competency requirement; PSC 101 or PSC 103. The institutional and human force of story in race/sex/politics; legitimizing myths of the U.S. political system; limits to the achievement of consensus in group values and politics; standpoints of race/sex/political privilege and disadvantage; difficulties posed to the regime by the refusal of consent; and the transformation and assumption by citizens of self-government. Offered spring only.

### PSC 389 TOPICS IN POLITICAL SCIENCE

3, 3/0

In-depth study of current issues of substantial political significance, such as: public personnel administration, defense policy, computers and political science, environmental policy, political communication, health policy, and human rights. Offered occasionally.

### PSC 390 THE ITALIAN-AMERICAN EXPERIENCE: POLITICS, SOCIETY, & IDENTITY

3, 3/0

Examination of the experience of Italians in the United States from an interdisciplinary perspective beginning with the peak years of emigration (1870-1920) including the culture, society, economy, and government of Italy (push factors) and the promise of America (pull factors). Identity, citizenship, worldview, family structure, expressive culture, politics, economics, crime, and social relations in the Italian-American community.

### PSC 398 LEGAL RESEARCH AND WRITING

3, 3/0

Prerequisites: CWP 102; PSC 250, or Instructor Permission. An introduction to the rules and techniques of legal research and writing. Discovering through electronic and bound legal sources law and applying it to specific legal situations. Students will then communicate their results through generally accepted legal techniques: oral presentation, the legal memo, the legal brief.

### PSC 399 RESEARCH SKILLS

3, 3/0; CT14, IM14, WIIF

Prerequisites: PSC 204 and junior or senior standing; or instructor permission. Preparation to study selected topics in political science through in-depth research and for written and oral presentation of research findings. Offered every semester.

**PSC 410 POLITICAL BEHAVIOR AND PUBLIC OPINION**  
3, 3/0

Conditions of democratic political behavior, opinion formulation in democratic systems, voting behavior and party affiliation in the United States, mass political behavior and governmental institutions, mass political behavior in selected western European societies. Offered occasionally.

**PSC 415 URBAN PUBLIC POLICY**  
3, 3/0

Prerequisite: Upper-division status. Urban problems and government policy responses to them; economic development, poverty, and crime; roles of all levels of government; policy analysis. Offered occasionally.

**PSC 420 CONTEMPORARY CONSTITUTIONAL ISSUES**  
3, 3/0

Recent developments in American constitutional law; comparison of the Warren, Burger, Rehnquist, and Roberts courts; First Amendment liberties and rights; the rights of the accused and criminal due process; equal protection and African Americans; reapportionment and representation; the president and national security. Offered occasionally.

**PSC 421 DISCRIMINATION AND THE U.S. CONSTITUTION**  
3, 3/0

Prerequisite: Junior or Senior standing. The role the equal protection clause plays in prohibiting and allowing discrimination in the United States. The development of equal protection jurisprudence throughout the past century and a half. The reach and potentialities of equal protection analysis: fundamental rights, suspect classes, expansion and retrenchment. Offered occasionally.

**PSC 426 MEDIATION**  
3, 3/0

Prerequisite: Instructor permission. Detailed examination of mediation theory and practice; the role of the mediator; the types of disputes most suited for mediation; the place of mediation in the American legal landscape; survey of other forms of alternative dispute resolution, challenges and controversies concerning their use. Offered occasionally.

**PSC 430 UN AND GLOBAL AFFAIRS**  
3, 3/0

Prerequisite: Instructor permission. Provides an overview of the United Nations, including history, structure, objectives, and politics. Students learn practical skills by participating in Model UN simulations and conducting independent research on the UN. Offered spring only.

**PSC 450 CONTEMPORARY POLITICAL THOUGHT**  
3, 3/0; WIIF

Central problems of political philosophy (such as equality, freedom, justice, and political obligation) as discussed by contemporary philosophers. Offered occasionally.

**PSC 470 SENIOR SEMINAR**  
3, 3/0; WIIF

Prerequisites: PSC 203, PSC 204, PSC 399, and junior or senior standing; or instructor permission. Selected topics in political science examined and analyzed in depth. Offered spring only.

**PSC 485 MOCK TRIAL**  
3, 3/0

Prerequisite: Upper-division status or permission of instructor. Simulation of a trial court or appellate court proceeding involving teams of students acting as prosecutors'/plaintiffs' attorneys, defense attorneys, and witnesses. Students develop case strategy, analyze evidence, integrate legal precedent, prepare a written brief, question witnesses, and present oral arguments to the court in opening and closing statements. Final project is a mock trial presentation held in a formal courtroom setting. Offered every semester.  
Equivalent Courses: CRJ 485, SOC 485

**PSC 488 INTERNSHIP**  
1-15, 0/0; WIIF

Prerequisites: PSC 203, PSC 204, PSC 399 and junior or senior standing. Field experiences that supplement departmental academic offerings; geared to students' interests. Faculty intern supervisor and department chair permission necessary. Offered every semester and summer.

**PSC 495 SPECIAL PROJECT**  
1-3, 0/0

**PSC 497 WASHINGTON SEMESTER**  
1-16, 0/0

State University of New York's Washington semester program. Class work, seminars, and internship work; selection based on college-wide competition; contact Political Science Department chair for information and application forms. Offered every semester and summer.

**PSC 499 INDEPENDENT STUDY**  
3-12, 0/0

## Psychology (PSY)

**PSY 101 INTRODUCTION TO PSYCHOLOGY**  
3, 3/0; SS14

Introduction to the scientific study of psychology; research methodology; genetic, biological, cultural, and environmental influences on behavior; perception, learning; memory; intelligence; maturation; motivation; emotion; stress and coping; personality; social processes and psychopathology. Required for psychology majors. Offered Every Semester.

**PSY 120 POSITIVE PSYCHOLOGY: HAPPINESS, HOPE AND HUMOR**  
3, 3/0; SS14

Introduction to positive psychology; topics include happiness, altruism, hopefulness, and humor. Determinants of subjective well-being, such as forgiveness, gratitude, and social support. Applying empirical research in positive psychology to everyday life. Offered occasionally.

**PSY 205 INDEPENDENT READING**  
1, 0/0

Prerequisites: PSY 101 grade of C, and permission of instructor. Supervised readings on a specific topic in psychology chosen mutually by the student and faculty supervisor at the time of registration. Offered occasionally.

**PSY 250 PSYCHOLOGICAL SCIENCE FUNDAMENTALS**  
3, 3/0

Prerequisite: PSY 101 with a grade of C or higher. Overview of the science of psychology. Language and structure of research as a process of scientific inquiry. Analysis and evaluation of research articles. Fundamentals of writing in the discipline. Applying resources and skills for effective learning in psychology. Careers in psychology; ethical principles. Required for psychology majors. Offered every semester.

**PSY 295 RESEARCH EXPERIENCE IN PSYCHOLOGY**  
1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**PSY 296 PSYCHOLOGY HONORS SEMINAR**  
1, 1/0

Prerequisites: PSY 101 with a grade of A- or better; instructor permission. Introduction to research opportunities in psychology, leading to participation in PSY 499 Independent Study in Psychology or PSY 496/498 Honors Thesis I and II. Topics include research and applied careers in psychology, conference presentation skills, and advanced library skills. May be repeated. Offered every semester.

**PSY 301 PERSPECTIVES ON CHILD ABUSE AND ADVOCACY**  
3, 3/0

Prerequisites: Junior or senior status; PSY 101 or CRJ 101 or SWK 220 or EXE 100 or Instructor permission. Introduction to child advocacy studies from a variety of diverse, professional perspectives. History, responses to child maltreatment, skills necessary to successfully conduct child advocacy, and other issues pertaining to child maltreatment and advocacy. Designed for students majoring in criminal justice, education, social work, sociology, psychology, or other areas where knowledge of child maltreatment and advocacy might be beneficial. Offered every fall.  
Equivalent Course: CAS 301

**PSY 304 LEARNING: THEORY AND RESEARCH**  
3, 3/0

Prerequisite: PSY 101, grade of C. Theories of learning and the scientific investigation of the learning process; the psychological correlates of learning, memory and attention, empirical laws and principles and their derivation from research on humans and animals; theoretical explanations of the learning process. Offered Every Semester.

**PSY 306 STATISTICS IN PSYCHOLOGICAL RESEARCH**  
3, 3/1

Prerequisite: PSY 101, grade of C. Completion of the IF or IF14 mathematics and quantitative reasoning requirement. Intensive study of the major descriptive and inferential statistics used in psychological research; graphic and tabular presentation of data, measures of central tendency and dispersion, probability theory, t-tests, analysis of variance, chi-square, correlation techniques; experimental design. Required for psychology majors. Completion of PSY 306 with a grade of C or better is a prerequisite for the required major course PSY 450. Offered Every Semester.  
Equivalent Course: PSY 350

**PSY 308 SENSATION AND PERCEPTION**  
3, 3/0

Prerequisite: PSY 101, grade of C. Major facets of perceptual functioning, from sensory processes to complex perceptual integrative processes. Emphasis on basic concepts such as physiological correlates of perception, empirical laws and principles, and theoretical explanation of perceptual processes and their determinants. Offered Every Semester.

**PSY 311 PERSONALITY: THEORY AND RESEARCH**  
3, 3/0

Prerequisite: PSY 101, grade of C. Theoretical problems, methods, and empirical findings related to the development of an adequate theory of personality development and function; problems of theory construction, major theoretical approaches, personality determinants, and personality assessment; empirical research. Offered Every Semester.

**PSY 321 COMPARATIVE ANIMAL BEHAVIOR**  
3, 3/0

Prerequisite: PSY 101, grade of C. The study of animal behavior from a psychological perspective; current theoretical models; evolution and adaptive functions of sexuality, predator-prey interactions, evolution of social organization, territoriality, dominance, aggression, learning, and instinct. Offered spring only.

**PSY 325 SOCIAL BEHAVIOR**  
3, 3/0

Prerequisite: PSY 101, grade of C. Theoretical and empirical examination of the role of social factors on an individual's behavior; attitude formation and change, affiliation, attribution process, interpersonal attraction, small-group dynamics, aggression, conformity, leadership, and competition. Offered Every Semester.

**PSY 327 ADULT DEVELOPMENT AND AGING I**  
3, 3/0

Prerequisite: PSY 101, grade of C. Introduction to human development and change throughout early, middle, and late adulthood; current psychological theory and empirical evidence on patterns of aging, problems of aging, and benefits of aging; social, psychological, and biological determinants of adult development; cognitive change; personality change; family relations; life satisfaction; the stigma of old age. Offered fall only.

**PSY 330 THE PSYCHOLOGICAL POWER OF LANGUAGE**  
3, 3/0

Prerequisites: PSY 101, grade of C. Study of language from a psychological science standpoint. Properties of human languages; how language is represented in mind and brain; how it is acquired; whether it is specific to humans; relationship between language and culture; verbal and non-verbal aspects of how language is used to communicate. Offered fall only.

**PSY 333 BRAIN AND BEHAVIOR**  
3, 3/0

Prerequisites: PSY 101, Grade of C or better. An introduction to the brain structures and processes that underlie cognition, emotion, and action. Topics include: general principles of behavioral neuroscience; neural, genetic, and epigenetic basis of behavior; functional brain anatomy; effect of drugs and hormones on brain and behavior. Offered every semester.

### PSY 340 COGNITIVE PSYCHOLOGY

3, 3/0

Prerequisite: PSY 101 with a minimum grade of C. Introduction to the mind and thinking from a cognitive psychology viewpoint. Classic and contemporary research examining perception, attention, memory processes and structures, imagery, language processing, problem-solving and creativity, and decision-making. Theories of cognition based on information-processing, embodied cognition, and neural circuits and processing in the brain. Offered Every Semester.

### PSY 350 STATISTICS IN PSYCHOLOGICAL RESEARCH 3, 3/1

Prerequisite: PSY 101, grade of C, at least Sophomore status, and at least one of the following: MAT 114 or MAT 121 or MAT 126 or MAT 161 or MAT 202 or MAT 270 or MAT 301 or MAT 306 or MAT 311 or MAT 315 . Intensive study of the major descriptive and inferential statistics used in psychological research; graphic and tabular presentation of data, measures of central tendency and dispersion, probability theory, t-tests, analysis of variance, chi-square, correlation techniques; experimental design. Required for psychology majors. Completion of PSY 306 with a grade of C or better is a prerequisite for the required major course PSY 450. Offered Every Semester.

Equivalent Course: PSY 306

### PSY 355 LIFESPAN DEVELOPMENTAL PSYCHOLOGY 3, 3/0

Prerequisite: PSY 101, grade of C. Psychological, biological, and social factors that affect psychological development throughout the lifespan; physical development, language acquisition, cognitive development, social development, personality development, morality and changing life tasks; genetic, cultural, and experiential determinants of development. Offered Every Semester.

### PSY 356 CHILD DEVELOPMENT

3, 3/0

Prerequisite: PSY 101, Grade of C. Psychological, social, and biological factors that affect development from conception through preadolescence; comprehensive exposure to research findings and theories in child development. Physical development, language acquisition, cognitive development, social and emotional development, and moral development; mechanisms of developmental change such as genetic, cultural, historical, and experiential influences. Offered Every Semester.

### PSY 357 ADOLESCENT AND YOUNG ADULT DEVELOPMENT

3, 3/0

Prerequisite: PSY 101, grade of C. Current theoretical and empirical understandings of the transitions from early adolescence to young adulthood; multidisciplinary approach; biological, psychological, and social factors emphasized. Biological, cognitive, interpersonal, self-concept, family, academic, and career transitions as well as psychosocial problems encountered. Offered Every Semester.

### PSY 365 PSYCHOLOGY IN THE WORKPLACE

3, 3/0

Prerequisite: PSY 101, grade of C. Theory and research in industrial/organizational psychology emphasizing personnel selection, classification, placement, training, and development; work motivation, job satisfaction, factors that influence productivity, leadership, and organizational theory. Offered fall only.

### PSY 367 ORGANIZATIONAL BEHAVIOR

3, 3/0

Prerequisites: PSY 101, grade of C. Behavior, attitudes and performance of people in organizations. Interdisciplinary perspective of theory, research and practice of individual behavior and organizational performance. Addresses practical managerial problems and organizational functioning. Offered spring only.

### PSY 370 ENVIRONMENTAL PSYCHOLOGY I

3, 3/0

Prerequisite: PSY 101, grade of C. Environmental psychology and the role of physical environment on behavior; physical environment-behavior relations, research methods, territoriality, privacy, crowding, environmental perception and attitudes, pollution and behavior, buildings and behavior. Offered occasionally.

### PSY 375 FORENSIC PSYCHOLOGY

3, 3/0

Prerequisite: PSY 101, grade of C. Application of psychological knowledge to the civil and criminal justice systems; research endeavors that examine aspects of human behavior as well as the professional practice of psychology within the legal system; clinical, applied and research activities of psychology and law. Offered Every Semester.

### PSY 376 HEALTH PSYCHOLOGY

3, 3/0

Prerequisite: PSY 101, grade of C. Theory and empirical research in the psychology of stress, coping, and health; health psychology, major physiological systems, components of stress, relationship of stress to health, physical and psychological consequences of stress, social support systems, coping with life crises, relaxation techniques, psychological intervention and treatment, and the holistic health model. Offered Every Semester.

### PSY 381 PSYCHOLOGY OF CULTURE

3, 3/0; GE14

Prerequisite: PSY 101, grade of C. Similarities and differences in behavior cross-culturally; the dimensions along which individuals vary between cultures; the issues involved in conducting cross-cultural research; differences and similarities between cultures in the areas of the self and personality, conformity, obedience, aggression, attachment and child-rearing; abnormal psychology and culture-bound syndromes, and interpersonal and group relations. Offered occasionally.

### PSY 382 PSYCHOLOGY OF THE CONSUMER

3, 3/0

Prerequisite: PSY 101, grade of C. Psychology of consumer behavior; psychological theory and measurement techniques as tools for understanding consumer behavior. Relevant material from learning, perception, attitude formation, personality, and motivation literature as it describes consumer decision making. Offered occasionally.

### PSY 383 THE PSYCHOLOGY OF HUMAN SEXUAL BEHAVIOR

3, 3/0

Prerequisite: PSY 101 grade of C or better. Psychosexual aspects of human sexuality. Topics include: historical views of human sexuality, sex research, physiology of sex, gender identity, sexuality throughout the lifespan, sexual orientations, social psychological attitudes toward sex, sexual difficulties, atypical sexual behavior, and love, intimacy, and communication in relationships. Offered every semester.

**PSY 384 PSYCHOLOGY OF AGGRESSION AND VIOLENCE**

3, 3/0

Prerequisite: PSY 101, grade of C. Reasons for aggression; biological vs. environmental causes of aggression; definitions and scientific study of aggression; methods to control aggression. Offered occasionally.

**PSY 387 PSYCHOLOGY OF GENDER**

3, 3/0; DI14

Prerequisite: PSY 101, grade of C. Empirical and theoretical issues of the psychology of gender issues; differences in female and male behavior in terms of such social factors as conformity to societal pressures, sex-role stereotyping, and gender-specific socialization patterns; biological influences on gender differences; development of sex differences; gender-role development; sex differences in cognition, personality, achievement, and leadership. Offered fall only.

**PSY 388 PSYCHOLOGY OF DEATH AND DYING**

3, 3/0

Prerequisite: PSY 101, grade of C. Objective coverage of the relevant issues pertaining to death and dying; the stages of dying, counseling the dying person, attitudes of and reactions to death, psychological needs served by funeral and burial rituals, suicide, grief, bereavement, the child and death, effect of death on survivors, euthanasia, and medical and legal definitions of death. Offered occasionally.

**PSY 389 TOPIC COURSE**

3, 3/0

Examination of specific topics related to emerging areas of psychology. Offered occasionally.

**PSY 392 ABNORMAL PSYCHOLOGY**

3, 3/0

Prerequisites: PSY 101 with a grade of C or better and 3 additional hours of psychology. Examines psychopathology from a biopsychosocial perspective, exploring research and theory. Topics include: the concept of abnormality, classification, assessment, and treatment of psychopathology, and the etiology and characteristics of selected disorders.

**PSY 393 ABNORMAL CHILD PSYCHOLOGY**

3, 3/0

Prerequisites: PSY 101 with a grade of C or better and 3 additional hours of psychology. Significant issues and problems related to child psychopathology. Diagnosis, assessment, and treatment of childhood disorders, including, but not limited to ADHD, autism spectrum disorder, depression, conduct disorder, eating disorders, intellectual disability, and learning disabilities.

**PSY 412 COMMUNITY PSYCHOLOGY**

3, 3/0

Prerequisites: PSY 101, grade of C, and 3 credit hours of psychology; PSY 392 recommended. Theoretical and empirical literature regarding community mental health. Historical perspectives on the community mental health movement, assessment of psychological dysfunction, levels of evaluating institutional change, consultation, and program evaluation. Offered occasionally.

**PSY 415 THE COMPETENT INFANT**

3, 3/0

Prerequisites: PSY 101, grade of C, and PSY 355 or PSY 356. The psychological world of the normal human infant. Primary empirical research and theoretical problems relating to the field of infant development; biological processes of development, prenatal development, birth, characteristics of the neonate, speech and language, cognition and learning, interactions and socialization, sex differences in behavior, theoretical models of early development. Offered fall only.

**PSY 417 THE ATYPICAL INFANT**

3, 3/0

Prerequisites: PSY 101, grade of C, and PSY 355 or PSY356. The psychological effects of developmental delay in infants. Screening, assessment, and intervention of high-risk infants; definition of at-risk and high-risk infants, biological traumas and defects, prenatal traumas, birth and perinatal traumas, psychological crises in infancy, psychological assessment of developmental delay in newborns and infants, early intervention for high-risk infants and their families, psychological issues of parenting the high-risk infant. Offered spring only.

**PSY 421 PHYSIOLOGICAL PSYCHOLOGY**

3, 3/0

Prerequisites: PSY 101 grade of C, and 3 credit hours of psychology. The brain and nervous, endocrine, and immune systems, and their relationship to animal and human behavior; psychosurgery, physiological basis of language, intelligence, emotion, motivation, learning, sexuality, abnormal behavior, perception, and motor behavior. Offered fall only.

**PSY 427 ADULT DEVELOPMENT AND AGING II**

3, 3/0

Prerequisites: PSY 101 grade of C, and PSY 327. Complex psychological issues pertaining to late-life development and adjustment; theoretical and applied issues, research methodologies, empirical data in relation to cognitive processes, personality, self-conceptions, social contexts, clinical assessment and intervention, and cultural influences on the behavior of older adults. Offered occasionally.

**PSY 430 PSYCHOLINGUISTICS**

3, 3/0

Prerequisites: PSY 101 grade of C, and PSY 330 or PSY 340. Empirical approach to how we produce and understand language. Major theories, looking at language sounds, words, sentences, conversation, and discourse. Integrates language representation and processing into the general framework of cognitive science. Includes laboratory exercises and final project. Offered spring only.

**PSY 432 HUMAN MOTIVATION AND EMOTION**

3, 3/0

Prerequisites: PSY 101 grade of C, and PSY 304 or PSY 376. Motivation and the fundamental, empirical, and logical basis for its postulation and use in psychological explanations of animal and human behavior; motivation and how motivational processes interact with other psychological processes. Offered occasionally.



**PSY 435 HUMAN MEMORY**

3, 3/0

Prerequisite: PSY 101 with a grade of C or better, and at least one of the following Bio/Cognitive courses: PSY 304 or PSY 308 or PSY 321 or PSY 330 or PSY 333 Or PSY 340. Components and functioning of the human memory system and its neural basis in the brain. Theory and model-based examination of memory formation, storage, organization, retrieval success and failure. Exploration of memory errors, the role of emotion, amnesias, dementias, and mnemonics. Includes research project. Offered at least once a year.

**PSY 440 ADDICTIVE BEHAVIORS**

3, 3/0

Prerequisites: PSY 392; PSY 311 is recommended. Etiology, prevention, and treatment of addictive behaviors, emphasizing biological, psychological, and social factors; dependence on alcohol, nicotine, and other drugs, as well as gambling, eating disorders, and compulsive sexual behavior. Offered Every Semester.

**PSY 441 INTRODUCTION TO NEUROPSYCHOLOGY**

3, 3/0

Prerequisites: PSY 101 grade of C, and 3 credit hours of psychology. The relationship between human brain function and behavior; functional anatomy of the brain; experimental and clinical techniques employed by neuropsychologists to uncover brain-behavior relationships. Offered Every Semester.

**PSY 450 RESEARCH METHODS IN PSYCHOLOGY I: INTRODUCTION TO RESEARCH METHODS**

3, 2/2; IM14, WIIF

Prerequisites: PSY 306 with a grade of C or better; completion of Mathematics and Quantitative Reasoning IF or IF14 (general education) requirement. Laboratory investigation in the behavioral sciences; higher-order correlational and parametric statistics, various approaches to research, and the interpretation and communication of research findings. Laboratory experiences to illustrate course content. Requires minimum of five laboratory exercises and reports. Required for psychology majors. Offered Every Semester.

**PSY 460 ADVANCED LEGAL PSYCHOLOGY**

3, 3/0

Prerequisites: PSY 101 grade of C, and PSY 375 or PSY 325. How behavior in legal contexts is influenced by social psychological, cognitive, and developmental processes. Social and cognitive influences on eyewitness testimony and memory, false confessions, jurors' decision making and evaluation of trial evidence, social influence among jury members, children's participation in the legal system, and discrimination in the legal system. Offered spring only.

**PSY 466 PERSONNEL PSYCHOLOGY**

3, 3/0

Prerequisites: PSY 101 grade of C, and PSY 365 or PSY 367. Problems, tools, and strategies involved in applying psychological principles to personnel selection, placement, training, and assessment in organizations; the roles of personnel psychologists, job analysis, developing performance criteria for jobs, performance appraisal, interviewing, the uses of employment testing, predicting job success, training programs, and social and ethical issues in personnel psychology. Offered occasionally.

**PSY 470 ENVIRONMENTAL PSYCHOLOGY II**

3, 3/0

Prerequisites: PSY 101 and PSY 370. Advanced- level continuation of PSY 370. Theory building in physical-environmental behavior relations, innovative and unobtrusive measures, individual human needs in the physical environment, and basic processes and their relationship to the physical environment. Contact department regarding course availability.

**PSY 471 HISTORY AND SYSTEMS OF PSYCHOLOGY**

3, 3/0

Prerequisites: PSY 101 grade of C, 6 credit hours of psychology and senior standing. History of the emergence of modern psychology from pre-Socratic thought to the present. Emphasis on systematic examination of psychology's historical roots as expressed in contemporary theories and models. Required for psychology majors. Offered Every Semester.

**PSY 472 SEMINAR ON PSYCHOLOGY**

3, 3/0; CT14, WIIF

Prerequisites: PSY 101 grade of C, PSY 306 grade of C, PSY 450, and 6 credit hours of psychology. Topic areas for each course vary and are announced prior to student enrollment. Coursework involves the study of basic theoretical principles and empirical laws of different psychology content areas; individual presentations on relevant topics. Required for psychology majors. Offered Every Semester.

**PSY 480 PSYCHOTHERAPY: THEORY, RESEARCH, AND PROCEDURES**

3, 3/0

Prerequisites: PSY 311 or PSY 392. The contribution of psychology to the practice of psychotherapy; theory, research, and clinical applications; the scientist-practitioner model; major theories of psychotherapy; the social impact of therapy; research support for major therapy systems; ethical issues. Offered fall only.

**PSY 481 PSYCHOLOGICAL TESTS AND MEASUREMENTS**

3, 3/0

Prerequisites: PSY 101 grade of C, and PSY 306. Issues and problems surrounding psychological testing. Test reliability, validity, construction, administration, norms, and interpretation; commonly used intelligence, personality, neuropsychological, and personnel-assessment techniques. Provides limited practicum experiences. Offered spring only.

**PSY 488 INTERNSHIP**

3-15, 0/0

Prerequisite: Permission of the instructor; second semester junior standing; minimum 2.5 GPA. Supervised field experience in a variety of settings to supplement the classroom instruction of the Psychology Department. Offered every semester.

**PSY 495 SPECIAL PROJECT**

1-3, 0/0

Prerequisite: Faculty supervisor permission. Research conducted under the supervision of a faculty member. Offered occasionally.

### PSY 496 HONORS THESIS I

3, 0/0

Prerequisites: PSY 450, 72 credit hours, and permission of instructor. Honors psychology students initiate research that is formally presented in thesis form. Formal research proposals (oral and written) presented to supervisors and honors thesis committee. Extensive library research. Required for students in the departmental honors program. Offered occasionally.

### PSY 498 HONORS THESIS II

3, 0/0

Prerequisites: PSY 496 with a minimum grade of B and permission of instructor. Honors psychology students conduct research proposed in PSY 496 and submit a formal thesis in written form. Oral defense of work before faculty supervisor, thesis committee, and interested faculty members. Required for students in the departmental honors program. Offered occasionally.

### PSY 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisite: Faculty adviser permission. Offered occasionally.

## Public Administration (PAD)

### PAD 101 INTRODUCTION TO PUBLIC ADMINISTRATION AND NONPROFIT MANAGEMENT

3, 3/0

Overview of public and nonprofit agencies, socioeconomic and cultural impact of nonprofits, public-nonprofit partnerships, employment systems, governance in public and nonprofit sectors, ethical challenges. Offered every semester.

### PAD 307 METROPOLITAN GOVERNANCE

3, 3/0

Prerequisites: PAD 360 or instructor permission. Metropolitan governance focuses on the development and implementation of public policy goals in metropolitan regions. Topics include: types of local governments and their responsibility and authority; public-private partnerships; economic growth and decline; intergovernmental relations; urban and neighborhood renewal.

### PAD 347 EVOLUTION AND DEVELOPMENT OF THE NONPROFIT SECTOR

3, 3/0

Prerequisites: Junior or Senior Standing or Instructor Permission. An overview of the U.S. nonprofit sector, highlighting the unique and distinct roles nonprofits perform in our society. The history and evolution of the U.S. nonprofit sector, along with an overview of the scope and functions of tax-exempt organizations, and various theories that explain the existence of the nonprofit sector and why the sector continues to grow. Offered occasionally.

### PAD 348 GRANTS MANAGEMENT AND FUND DEVELOPMENT IN PUBLIC AND NONPROFIT AGENCIES

3, 3/0

Prerequisites: Junior or Senior Status. Resource development for nonprofit and public organizations, grant seeking process, fundraising strategies and plans, Requests for Proposals (RFPs), students will prepare an actual grant proposal and a fundraising plan. Offered spring only.

### PAD 360 PUBLIC ADMINISTRATION

3, 3/0

Introduction to public administration: analysis of government administration in its social, economic, and political settings; the role of public administration in formulating public policy; organization and management in public services; personnel and financial management.

Equivalent Course: PSC 360

### PAD 368 COMPARATIVE PUBLIC ADMINISTRATION

3, 3/0

Introduction to cross-cultural, cross-national, or cross-institutional study of public administration institutions and practices; the administrative systems of European countries and the processes of administrative change in developing countries; the evolution of bureaucracy.

Equivalent Course: PSC 368

### PAD 370 CANADIAN PUBLIC ADMINISTRATION

3, 3/0

Canadian public administration institutions and processes and the development of public policy; the federal level; secondary attention to provincial and local administration and policy; similarities and differences with other administrative systems, especially the United States.

Equivalent Course: PSC 370

### PAD 389 TOPICS IN PUBLIC ADMINISTRATION

3, 3/0

In-depth study of current issues of substantial political significance, such as: public personnel administration, defense policy, computers and political science, environmental policy, political communication, health policy, and human rights.

### PAD 390 RESEARCH METHODS IN PUBLIC ADMINISTRATION

3, 3/0

Prerequisites: Junior or senior standing. Design, execution, and interpretation of research for public and nonprofit managers. Includes quantitative, qualitative, and mixed research methods, constructing and testing hypotheses, data collection and analysis, use of SPSS for data analysis, use of EndNote for research and literature reviews, ethical consequences of social science research, preparing a research paper.

### PAD 400 INTERNATIONAL PUBLIC MANAGEMENT AND SERVICE

3, 3/0

Prerequisites: PAD 360 or instructor permission. Examines areas of public management, public service, and public-private partnerships as related to the US federal government, international government organizations (IGOs), and the global arena.

### PAD 401 HUMAN RIGHTS AND HUMANITARIAN POLICY

3, 3/0

Prerequisites: PAD 360 or instructor permission. Examines areas of international human rights and humanitarian assistance as related to the legal aspects and major practical and policy considerations in the global arena.

**PAD 403 NGO MANAGEMENT AND INTERNATIONAL DEVELOPMENT**

3, 3/0

Prerequisites: PAD 360 or instructor permission. Examines areas of international development and non-governmental organizations (NGO) as related to their operation, management and effectiveness. Offered J-Term only.

**PAD 435 ADMINISTRATIVE PRACTICES IN PUBLIC AND NONPROFIT SECTORS**

3, 3/0

Prerequisites: PAD 360 or instructor permission. Public and nonprofit management and organizational theories, policies and practices. History of public and nonprofit management systems; public and nonprofit organizational structures; distinctions and similarities in mission, values, and cultures. Effective management and leadership in public and nonprofit organizations; the political environment, power, and policy affecting public and nonprofit management; organizational goals and effectiveness; planning, strategy and decision making in the public and nonprofit sectors.

**PAD 488 INTERNSHIP**

1-15, 0/0

Field experiences that supplement departmental academic offerings; geared to students' interests. Faculty intern supervisor and department chair permission necessary.

**PAD 495 SPECIAL PROJECT**

1-3, 0/0

**PAD 499 INDEPENDENT STUDY**

3-12, 0/0

## Religious Studies (REL)

**REL 104 INTRODUCTION TO RELIGIOUS STUDIES**

3, 0/0; HU14

Introduction to the rational study of religion, including religious practices and philosophies and concepts basic to religious experience. Offered occasionally.

**REL 105 INTRODUCTION TO CHRISTIAN THOUGHT**

3, 3/0; WC14

A study of Christian thought from its origins to the present, and its influence on the literature, art, architecture, music, government, education, and lifestyle of Western civilization. Offered occasionally.

**REL 107 INTRODUCTION TO ISLAM**

3, 3/0

An introduction to the fundamental concepts and approaches within Islam including the history of Islam, essentials of Islamic faith, the impact of Islamic civilization on the world's social and cultural development, the Islamic art, and the contemporary interpretations of the Islamic tradition. Offered occasionally.

**REL 121 INTRODUCTION TO JEWISH THOUGHT**

3, 3/0; WC14

Examination of basic Judaism, major trends in Jewish thought, the Bible, and its influence on Western Civilization; Jewish ideas of God, time, Messiah, and history and their influence on Western Civilization. Offered occasionally.

**REL 189 TOPIC COURSE**

1-3, 0/0

Current topics in Religion. Offered occasionally.

**REL 205 INTRODUCTION TO THE OLD TESTAMENT**

3, 3/0; HU14

The Old Testament, the backgrounds and cultures from which it grew, and the philosophies and literature it contains. Offered occasionally.

**REL 206 INTRODUCTION TO THE NEW TESTAMENT**

3, 3/0; HU14

Introduction to the New Testament, with emphasis on its literary content, the society from which it emerged, the structures and varieties of its literary contemporaries, and the tools necessary for understanding it. Offered occasionally.

**REL 303 WOMEN IN GLOBAL RELIGIONS**

3, 3/0; NW14

A study of women in world religions, with special attention to the effects of patriarchal religious institutions and religious myths that influence their lives. Feminist contributions to global religious thought and practice, and their effects upon the developing world. Offered occasionally.

**REL 306 WRITINGS OF JOHN**

3, 3/0

Historical and literary background of St. John's Gospel, the letters of John, and the Book of Revelation; the content of the gospel, its major theological themes, and its distinctive contributions to Christian thought. Offered occasionally.

**REL 321 WORLD RELIGIONS**

3, 3/0; NW14

A study of various world religions, such as Hinduism, Buddhism, Taoism, Confucianism, Shinto, Judaism, Christianity, and Islam, along with Native American, traditional African, and other oral religions. Offered fall only.

**REL 329 CONTEMPORARY CHRISTIAN THOUGHT**

3, 3/0

Prerequisite: Upper-division status or one course in religion. Worship, ministry, and theology of various Christian traditions and the context in which they developed, from the sixteenth to the twentieth centuries; contemporary challenges to Christianity. Offered occasionally.

**REL 332 MYSTICISM**

3, 3/0

Prerequisite: Upper-division status or one course in religion. Introduction to some of the major mystical disciplines of the world, such as Zen, Christian, Jewish, Sufi, European, Far Eastern, African, and Native American mysticism; their underlying philosophies. Offered occasionally.

**REL 360 WESTERN MONOTHEISM**

3, 3/0; WC14

Prerequisites: CWP 102. An examination of the belief systems of the three major Abrahamic faiths (Judaism, Christianity, and Islam), including the core beliefs and theological challenges that evolved within these belief systems and the impact of these belief systems on global civilization. Offered every semester.

**REL 488 INTERNSHIP**

1-12, 0/0

Prerequisites: Upper-division status; minimum cumulative GPA of 2.5, with at least one-third of philosophy major or religious studies minor coursework completed. Supervised field experience (experiential learning) consisting of supervised on-site activities and an academic component consisting of training sessions, seminars, and reports. Offered occasionally.

### REL 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisites: Sophomore, junior, or senior status and minimum cumulative GPA of 2.5 (overall, previous semester, and in major courses). Studies arranged and meeting hours undertaken individually with instructor. Offered occasionally.

## Safety Studies (SAF)

### SAF 305 FUNDAMENTALS OF SAFETY

3, 3/0

Fundamentals of accident prevention as applied to areas of living, with consideration of human and environmental factors, legal aspects, and home and fire safety. Offered Every Semester.

### SAF 310 PERSONAL SAFETY AND FIRST AID

3, 3/0

Personal accident-prevention skills and techniques. Basic instruction in emergency medical care. Emphasis on recreational, occupational, industrial, and daily-life routines. Standard first aid and personal safety certificate awarded upon successful completion. Offered fall only.

### SAF 320 PRODUCT SAFETY

3, 3/0

Product safety, agencies that control the manufacture and distribution of dangerous products, product safety laws and legal liability, product-injury data, evaluative criteria, product testing, determining standards for safety. Offered spring only.

### SAF 333 OCCUPATIONAL SAFETY

3, 3/0

Hazards in the workplace, with emphasis on various accident-prevention methods and techniques for employees and management; The Occupational Safety and Health Act (OSHA) of 1970. Offered occasionally.

### SAF 340 COMMUNITY SAFETY

3, 3/0

Human and environmental factors affecting community safety, accident prevention and control principles, agencies and organizations, safety laws and ordinances, standards and codes, legal liability and insurance, disaster and emergency medical care, safety in places of public assembly, recreational facilities, transportation systems. Required for safety minors. Offered fall only.

### SAF 360 INDUSTRIAL HYGIENE

3, 3/0

Introduction to industrial hygiene; detection, recognition, evaluation, and control of factors emanating from a workplace that may impair health, cause discomfort, illness, or disease, and/or reduce efficiency of workers and the community. Offered fall only.

### SAF 431 ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF INDUSTRIAL ACCIDENT PREVENTION PROGRAMS

3, 3/0

Prerequisite: SAF 430. Methods and techniques of efficient industrial accident-prevention programs; corporate responsibility, employee responsibility, and complex psychological relationships that affect the typical program. Offered occasionally.

### SAF 450 MOTOR FLEET SAFETY MANAGEMENT

3, 3/0

Fleet management techniques and their application; scope and functions of the motor fleet safety supervisor; federal, state, and local laws and regulations; selection and maintenance of equipment; customs and public relations. Offered occasionally.

### SAF 499 INDEPENDENT STUDY

3, 0/0

Offered occasionally.

## Science (SCI)

### SCI 100 CONTEMPORARY SCIENCE

3, 2/2; NS14

Introduction to the role of science in contemporary society; the process of science for solving problems and organizing information to understand science and technology; contemporary issues and case studies illustrate the methods of science. Offered Every Semester.

Equivalent Course: HON 102

### SCI 105 PHYSICAL SCIENCE FOR NONSCIENCE STUDENTS

3, 2/2; NS14

Inquiry approach to the physical sciences; extensive use of materials; designed for students interested in a nontechnical analysis of the procedures of science. Offered occasionally.

### SCI 189 TOPIC COURSE

1, 0/0

SCI 189

### SCI 200 FIELD EXPERIENCE IN SECONDARY SCIENCE EDUCATION

3, 2/2

Classroom and field experience designed to help students make a better-informed decision if they are contemplating a career in secondary science education. A 30-hour field component is required for each student. Offered occasionally. Equivalent Courses: FLE 200, MED 200, SED 200

### SCI 231 POLLUTION, THE ENVIRONMENT, AND SOCIETY

3, 2/2; NS14

Scientific and societal implications of present-day global environmental problems such as ecology, global warming, population, and pesticides. Causes and effects of, and possible solutions to, worldwide environmental problems with implications from conservation, chemistry, health, and society. Offered occasionally.

### SCI 232 ENERGY AND SUSTAINABILITY

3, 2/2; NS14

Regional and global energy use and sustainability; environmental, economic, individual, and societal perspectives; major energy alternatives. Offered alternate years.

### SCI 311 PROBLEM SOLVING IN PHYSICAL SCIENCE

3, 3/0

Prerequisites: A college-level course in a science other than biology, or permission of instructor. Inquiry-based course for elementary preservice candidates. Investigation of the physical sciences through problem solving, laboratory activities, simulations, and explorations. Option in elementary education science concentration. Offered alternate years.

### SCI 312 PROBLEM SOLVING IN LIFE SCIENCE

3, 3/0

Prerequisites: A college-level course in a science other than biology, or permission of instructor. Inquiry-based course for elementary pre-service candidates. Investigation of the life sciences through problem solving, laboratory activities, simulations, and explorations. Option in elementary education science concentration. Offered alternate years.

### SCI 313 PROBLEM SOLVING IN EARTH SCIENCE

3, 3/0

Prerequisites: A college-level course in a science other than biology, or permission of instructor. Inquiry-based course for elementary pre-service candidates. Investigation of the earth sciences through problem solving, laboratory activities, simulations, and explorations. Option in elementary education science concentration. Offered fall semesters.

### SCI 323 SCIENCE AS INQUIRY

3, 3/0

The procedures of science as a search for knowledge of natural phenomena; comparison with other methods of inquiry; implications for nonscientists. Option in elementary education science concentration. Offered occasionally.

### SCI 335 OUTDOOR SCIENCE EDUCATION

3, 2/2

Prerequisites: A college-level course in a science other than biology, or permission of instructor. Interdisciplinary approach to outdoor science education; basic concepts of natural history in classroom and field; extended field trips to the college camp. Offered occasionally.

### SCI 340 SCIENTIFIC STUDIES IN ENVIRONMENTAL POLLUTION

3, 3/0

Prerequisites: 9 credit hours of science and 3 credit hours of environmental science, or permission of instructor. In-depth examination of various types of environmental pollution. A field-based project is used to illustrate data-collection techniques. Offered occasionally.

### SCI 389 TOPIC COURSE

1-3, 3/0

SCI 389

### SCI 445 LITERACY FOR TEACHING SCIENCE

3, 2/2

Prerequisites: Instructor permission. Study of literacy related to secondary science. Candidates will practice promotion of literacy, conduct an action research project on identifying literacy levels of students, and plan literacy activities based on data collection. Offered Every Semester.

### SCI 488 INTERNSHIP

1-12, 0/6

SCI 488

### SCI 495 PROJECT

1-3, 0/0

Prerequisite: Faculty sponsor permission. Environment, energy, science, society, and science education- related areas. Offered occasionally.

### SCI 499 INDEPENDENT STUDY

3, 0/0

Prerequisite: Faculty sponsor permission. Environment, energy, science, society, and science education- related areas. Offered occasionally.

## Science Education (SED)

### SED 200 FIELD EXPERIENCE IN SECONDARY SCIENCE EDUCATION

3, 2/2

Classroom and field experience designed to help students make a better-informed decision if they are contemplating a career in secondary science education. A 30-hour field component is required for each student enrolled. Required for all secondary science education majors. Offered occasionally. Equivalent Courses: FLE 200, MED 200, SCI 200

### SED 307 TECHNIQUES FOR TEACHING LABORATORY ACTIVITIES IN THE SECONDARY SCIENCE CLASSROOM

3, 0/0

SED 307

Equivalent Course: MED 307

### SED 316 TEACHING READING IN THE SECOND LANGUAGE IN MIDDLE SCHOOLS

3, 3/0

SED 316

Equivalent Course: FLE 316

## Social & Psychol Found of Ed (SPF)

### SPF 189 ADULTS IN LEARNING

1, 1/0

SPF 189

### SPF 202 CHILD DEVELOPMENT AND EDUCATION

3, 3/0

Introduction to the study of child behavior and development with emphasis on implications for teaching and learning. Focus on the child in school, from early childhood through preadolescence. Includes child-study and observation methods; theories of development; nature and sources of individual development from biological, cultural, and behavioral perspectives, with emphasis on cognitive, social, emotional, and physical areas of development as they apply to the classroom. Required for elementary education and exceptional education majors according to program; elective for others beyond freshman level. Offered Every Semester.

### SPF 203 SCHOOL AND SOCIETY

3, 3/0; SS14

Prerequisite: Successful completion of the basic writing requirement. Education as a function of a democratic society. Sociological and historical backgrounds of schools. Current issues and problems affecting schools. Objectives, control, and financial support of education in New York State and the United States. Directed observation. Required of elementary-education and exceptional-education majors according to program; elective for others beyond freshman level. Offered Every Semester.

**SPF 221 THE HISTORY OF BLACK EDUCATION IN AMERICA**

3, 3/0

The role of blacks in the American educational system. Changes that have taken place in order to improve or retard education for blacks. Approaches for providing meaningful education for blacks now and in the future. Offered occasionally.

Equivalent Course: AAS 221

**SPF 222 THE DEVELOPMENT OF MODERN EDUCATION IN AFRICA**

3, 3/0

Educational changes in Africa from the colonial era to the present and their effect on social and political issues in Africa and abroad. Offered occasionally.

Equivalent Course: AAS 222

**SPF 225 ETHNIC STUDIES IN THE ELEMENTARY SCHOOL**

3, 3/0

Ethnic diversity in American life and education. Cultural minorities, e.g., Native Americans, blacks, Spanish-speaking groups, Jews. White ethnic groups and mainstream American life and education. Offered occasionally.

**SPF 302 EDUCATIONAL PSYCHOLOGY: ELEMENTARY EDUCATION**

3, 3/0

Prerequisites: EDF 202, CWP 101, CWP 102, upper-division status. Learners, the learning process, evaluating learning, and establishing a classroom environment to maximize learning. Offered Every Semester.

**SPF 303 EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION**

3, 3/0

Prerequisites: upper-division status. Psychological principles underlying learning and effective teaching. The effect of social and personality factors on learning, assessment, and evaluation of individual progress. Diagnosis of difficulties in learning, discipline, programming, and planning as related to instruction. Directed observation. Offered Every Semester.

**SPF 311 FAMILY VIOLENCE**

3, 3/0

Prerequisite: Successful completion of the basic writing requirement. Comprehensive overview and critical investigation into the field of family violence. Includes child abuse, dating violence, spouse abuse, sibling violence, adolescent maltreatment, parent abuse, and elder abuse. Explores history, prevalence, susceptibility factors, patterns of social interaction, demographics, sexual and emotional abuse, and the violence-prone personality. Theoretical perspectives on family violence, including cycle theory of violence, integrated within broader social science perspectives. Offered occasionally.

**SPF 319 CULTURAL DIVERSITY IN CLASSROOMS**

3, 3/0

Prerequisite: SPF203. Focus will be placed on the impact of culture on schooling through examination of the major conceptualizations of multicultural education and understanding of approaches that may be utilized by pre- and in-service teachers in ensuring that diverse cultures are addressed, respected, and integrated into classroom teaching, learning, and assessment.

**SPF 345 PARENTING**

3, 3/0

Prerequisite: Successful completion of the basic writing requirement. Relevant issues facing parents and professionals who work with them in today's changing society. Includes classical and current research, with emphasis on practical application and implication. Developmental approach to understanding parent-child relationships. Working more effectively with parents of varied cultural backgrounds, family structures, lifestyles, and at-risk factors. Offered occasionally.

**SPF 346 TEENAGE SEXUALITY**

3, 3/0

Teenage sexuality and factors influencing its emergence. The incorporation of sexuality education into the teaching-learning process at home and in school. Cooperative efforts by parents and teachers. Development of skills in communicating with teenagers about their sexuality. Strategies for teens to deal with sexuality concerns more effectively. Community resources for teens, parents, teachers. Special issues and problems. Offered occasionally.

**SPF 353 HUMAN DEVELOPMENT DURING EARLY ADOLESCENCE AND ADOLESCENCE**

3, 3/0

Introduction to preadolescent and adolescent behavior and development, with emphasis on implications for teaching. Includes the nature of adolescence, developmental and behavioral characteristics, learning and education, problems and issues of adolescents in today's society, ways teachers can study adolescents, and self-understanding.

**SPF 366 CULTURAL PROFICIENCY AND PUBLIC ACHIEVEMENT**

4, 3/0; DI14

Public achievement serves as a framework for analyzing diverse student perspectives, opinions, and assets to identify and meet the needs of different cultural groups and to learn to work effectively in cross-cultural settings. Students will be provided with practical experiences in implementing a project with children in a local school district.

Equivalent Course: SOC 366

**SPF 389 THEMES AND ISSUES IN URBAN EDUCATION**

3, 3/0

The contemporary social contexts of urban education; theory, schooling, and strategies for improved ways of teaching in relation to the community are explored. Offered occasionally.

**SPF 403 HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION**

3, 3/0

Prerequisite: Successful completion of the basic writing requirement. European, religious, and secular influences in American education. Evolving concepts of education in a democracy. Social and economic pressures in education. Development of the secondary school. Conflicting philosophies in current education. Offered Every Semester.

**SPF 495 SPECIAL PROJECT**

3, 0/0

**SPF 497 WORKSHOP**

1-3, 0/0

**SPF 499 INDEPENDENT STUDY**

3, 0/0

# Social Studies Education (SSE)

## SSE 200 INTRODUCTION TO SECONDARY TEACHING 3, 3/0

Classroom and field experiences designed to help students make better-informed decisions regarding careers in secondary social studies education. For the general student, provides important background for their roles as citizens and as parents. Required for social studies education majors. Offered Every Semester.

## SSE 303 METHODS AND MATERIALS IN TEACHING MIDDLE SCHOOL SOCIAL STUDIES 3, 3/0

Prerequisites: 6 credit hours of professional education courses, SST 200, cumulative 2.75 GPA (overall and in major coursework). May not be taken concurrently with SSE 309. Focuses on the problems of the teacher; techniques for teaching; analyzing classroom behavior; self-evaluation; and peer evaluation of teaching practices. Offered Every Semester.

## SSE 309 METHODS AND MATERIALS IN TEACHING HIGH SCHOOL SOCIAL STUDIES 3, 3/0

Prerequisites: Upper-division status, SSE 200, minimum cumulative GPA of 2.75 (overall and in major coursework). May not be taken concurrently with SSE 303. The purposes, goals, curricular materials, methodologies, and instructional techniques of social studies education; students develop competency in designing and practicing instructional strategies drawn from methodologies and of the curricular materials of social studies education and the disciplines of history and the social sciences. Offered Every Semester.

## SSE 350 THE TRADITIONS OF THE PEOPLE OF THE LONGHOUSE (THE HO DE NO SAU NEE) 3, 3/0

An introduction to the traditions of the People of the Longhouse (Haudenosaunee); pre-Columbian founding of the League, clan system, early colonial relationships, role in American Revolution, state of the Nations, and primary current issues. Offered occasionally.

## SSE 363 AMERICAN IDENTITY IN TRANSITION: DIVERSITY AND PLURALISM IN THE UNITED STATES 3, 3/0; DI14

The diverse, pluralistic makeup of American society. The roots of pluralism and what it means for the daily experience of living in America. Themes of diversity are explored through history and literature. Focuses on the activities of four major underrepresented groups in their struggle for liberation: African Americans, Native Americans, Latinos, and Asians. Encourages a multicultural view of America. Offered occasionally.

Equivalent Course: HIS 363

## SSE 370 COMPUTER TECHNOLOGY IN THE SOCIAL STUDIES CLASSROOM 3, 3/0

Prerequisite: History and social studies education major. Familiarizes students with relevant software and methodology for its use in the social studies classroom. All students have the opportunity to participate on the microcomputer. Offered Every Semester.

## SSE 402 HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF SOCIAL EDUCATION 3, 3/0

Prerequisite: Upper-division status. The development of the social studies curriculum in relation to the larger social, economic, educational, and political forces operating in American society; enduring philosophical issues as to what is the "good" society, the "good" citizen, and the best curriculum and instructional methods to create them. Offered occasionally.

## SSE 404 SEMINAR IN ELEMENTARY SOCIAL STUDIES 3, 3/0

Prerequisites: EDU 210 and EDU 352. Students learn to more effectively utilize their social science preparation for early secondary and elementary social studies instruction; make decisions concerning their tentative positions on the function of the school and society, the purpose of social studies, and the available alternatives to teachers in the areas of methodology, psychology, and curriculum. Offered occasionally.

## SSE 407 THE TEACHING OF HISTORY 3, 3/0

Prerequisite: Upper-division status. The curriculum and practice of teaching history, the historical role of history in the social studies, the political uses of the teaching discipline; provides a research foundation as to how historical meaning is constructed as a base for instructional practice; serves as a link between the material presented in content and pedagogical courses in the program. Offered Every Semester.

Equivalent Course: HIS 407

## SSE 409 STUDENT TEACHING OF SOCIAL STUDIES IN THE MIDDLE SCHOOL 6, 0/0

Prerequisites: Minimum cumulative GPA of 2.75 (overall and in major coursework), grade of C or higher in SSE 303 and SSE 309, successful completion of English composition/basic communication and mathematics competency requirements. Supervised teaching experience five full days a week for approximately seven consecutive weeks. Effective demonstration of content knowledge, pedagogical preparation, instructional delivery, classroom management, knowledge of student development, collaboration with school professionals, and reflectivity of practice required. Offered Every Semester.

## SSE 410 STUDENT TEACHING OF SOCIAL STUDIES IN SENIOR HIGH SCHOOL 6, 0/0

Prerequisites: Minimum cumulative GPA of 2.75 (overall and in major coursework), grade of C or higher in SSE 303 and SSE 309, successful completion of English composition/basic communication and mathematics competency requirements. Supervised teaching experience five full days a week for approximately seven consecutive weeks. Effective demonstration of content knowledge, pedagogical preparation, instructional delivery, classroom management, knowledge of student development, collaboration with school professionals, and reflectivity of practice required. Offered Every Semester.

### SSE 488 INTERNSHIP

1-12, 0/0

Prerequisites: SSE 409 and SSE 410, Sophomore, junior, or senior status; background of courses or experience within the area of interest; 6 credit hours of lower-division major coursework; 6 credit hours of history and social studies education coursework at the upper-division level; minimum cumulative GPA of 2.5 (overall and in major coursework); Student adviser and department chair permission. Guided, supervised field experiences that complement the academic program. Offered Every Semester.

Equivalent Course: HIS 488

### SSE 495 SPECIAL PROJECT

3, 0/0

Offered occasionally.

### SSE 497 WORKSHOP

1-2, 0/0

Offered occasionally.

### SSE 499 INDEPENDENT STUDY

3, 0/0

Offered occasionally.

## Social Work (SWK)

### SWK 105 INTERPERSONAL RELATIONS

3, 3/0

The impact of societal, cultural, and professional values on interpersonal relationships; increased awareness of interpersonal skills and examination of ways to overcome barriers to healthy interpersonal relationships. Offered occasionally.

### SWK 220 INTRODUCTION TO SOCIAL WORK

3, 3/0

Introduction to the social welfare institution and to social work; social work knowledge, skills, sanctions, values, and ethics; generalist practice in social work. Requires 40 hours of volunteer work in addition to coursework. Offered Every Semester.

### SWK 301 POVERTY AND PUBLIC POLICY

3, 3/0; DI14

Prerequisite: Sophomore, Junior standing. Focus on social welfare policies and programs. Overview of historical treatment of poverty and the poor, theories of poverty causation and the demographics of those impacted by poverty including race, age, gender, immigration status, socioeconomic status. Social change strategies and advocacy. Requires 20 hours of volunteer work in addition to coursework. Offered every semester.

### SWK 307 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I

3, 3/0

Prerequisites: SWK Majors Only, BIO 101, CWP 102, any PSY course, any SOC course, GPA of 2.5 or above in SWK major and overall. Focus on theories, and perspectives that are used to understand human development across the lifecycle; including current social issues that impact personal development. Offered every fall.

### SWK 308 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II

3, 3/0; WIIF

Prerequisites: SWK Majors only, Junior/Senior standing, BIO 101, CWP 102. As a second course in the Human Behavior and Social Environment curriculum, SWK308 focuses on deepening the student's knowledge of the theoretical frameworks that attempt to explain behavior and enlighten effective work with individuals, families, groups, organizations, and communities as a generalist social worker. Maladaptive patterns of adult psychological functioning are examined with a bio-psycho-social perspective in order that students may contextualize the information. Although students concentrate upon problematic human functioning, the course is presented in a manner that encourages them to view the strengths of clients along with their difficulties. Offered fall only.

### SWK 310 SEXUALITY IN HUMAN DEVELOPMENT

3, 3/0

Examination and analysis of human sexuality as part of human development; designed for future human services professionals. Offered occasionally.

### SWK 317 RESEARCH METHODS IN SOCIAL WORK

3, 3/0; CT14, IM14, WIIF

Prerequisites: SWK Majors Only, Junior/Senior standing, SWK 220, SWK 301, SWK 307, SWK 308, and SWK 422. Application of research methods in generalist social work practice. Includes research ethics, evidence based practice, and research design used in evaluation of social work practice. Writing intensive course. Offered every spring.

### SWK 320 SOCIAL SERVICES ORGANIZATIONS

3, 3/0

Prerequisites: SWK Majors Only, SWK 220, SWK 301, SWK 307, SWK 308, and SWK 422. GPA of 2.5 or above in SWK major and overall. Focus on history and functions of social service organizations. Overview of the creation, and implementation of social welfare policy, programs; community assessment and community organizing. Offered every spring.

### SWK 321 THE ELDERLY AND SOCIAL SERVICES

3, 3/0

Prerequisite: Junior/Senior standing. Needs of and services for the elderly; services and programs; policy issues regarding the aging, such as health, housing, and finances; intervention strategies for working with the elderly. Offered occasionally.

### SWK 335 MENTAL HEALTH AND SOCIAL WORK

3, 3/0

Prerequisite: Junior/Senior status, PSY101 or Social Work major. Theoretical perspectives concerning mental health and mental illness; history of the mental health movement; institutional and community mental health services; roles and functions of social workers and other personnel in the mental health system. Offered occasionally.

### SWK 345 CHILD WELFARE SERVICES

3, 3/0

Prerequisite: Junior/Senior standing. Child welfare as a field of practice in social work; historical and philosophical bases; the impact of culture, ethnicity, and race on practice; current delivery of services; skills needed to practice in the field. Offered occasionally.



**SWK 346 CHILD ABUSE AND NEGLECT**

3, 3/0

Prerequisite: Junior/Senior status, PSY101 or Social Work major. Major issues in child abuse and neglect from a social work viewpoint; the nature of abuse and neglect, the actual incidence, workings of the current child-protection system; intervention and treatment issues; the role of other disciplines and the larger society. Offered occasionally.

**SWK 389 TOPICS IN CHILD ABUSE: THE ROLE OF THE CLASSROOM TEACHER**

3, 0/0

Upper-level topics course in Social Work. Offered occasionally.

**SWK 419 SOCIAL WELFARE POLICY**

3, 3/0

Prerequisites: SWK Majors Only, SWK 317, SWK 320, SWK 423, SWK 424. GPA of 2.5 or above in SWK Major and Overall. Macro level advocacy with communities and legislative bodies; policy analysis; social justice models. Offered every fall.

**SWK 422 ASSESSMENT AND ENGAGEMENT**

3, 3/0

Prerequisites: SWK Majors Only, Junior/Senior standing, BIO 101, CWP 102. Fundamental skills of social work practice; communication, engagement, and assessment skills with individuals and families. Offered fall only.

**SWK 423 INTERVENTION METHODS**

3, 3/0

Prerequisites: SWK Majors Only, Junior/Senior standing, SWK 220, SWK 301, SWK 307, SWK 308, SWK 422, BIO 101, CWP 102. Models of generalist social work intervention; evidence-based practice with diverse populations; ethical guidelines for practice and self-reflection. Offered spring only.

**SWK 424 GROUPS**

3, 3/0

Prerequisites: SWK Majors only, SWK 220, SWK 301, SWK 307, SWK 308, and SWK 422. GPA of 2.5 or above in SWK major and overall. Focus on generalist social work group practice. Emphasis on facilitation of groups, group process, ethical group practice, and group development. Offered every spring.

**SWK 425 SOCIAL WORK WITH FAMILIES**

3, 3/0

Prerequisites: Junior/Senior status, PSY101 or Social Work major Focus on family and family intervention; family theory and practice principles studied through examination of families in specialized problem contexts. Offered occasionally.

**SWK 429 POLICY PRACTICE**

3, 3/0

Prerequisites: SWK 419, SWK 493, SWK 496, GPA of 2.5 or above in SWK Major and Overall. Focus on international human rights, and social, economic, and environmental justice. Policy analysis and program development. Global social work. Offered every spring.

**SWK 485 SENIOR SEMINAR**

3, 3/0

Intensive analysis of selected topics in social work. Offered occasionally.

**SWK 493 FIELD PRACTICUM I**

6, 6/0

Prerequisites: SWK Majors Only, Senior standing, SWK 220, SWK 301, SWK 307, SWK 308, SWK 317, SWK 320, SWK 422, SWK 423, SWK 424, BIO 101, CWP 102, and a minimum 2.5 GPA in the SWK major and cumulative. This course involves a supervised internship where students develop and complete a learning contract in conjunction with their fieldwork agency that includes demonstrating mastery of the required social work practice behaviors. Additionally, it involves a concurrent on-campus seminar that integrates and supports all previous social work coursework and demonstration of mastery. Offered fall only.

**SWK 494 FIELD PRACTICUM II**

6, 6/0

Prerequisites: SWK Majors Only, Senior standing, SWK 220, SWK 301, SWK 307, SWK 308, SWK 317, SWK 320, SWK 419, SWK 422, SWK 423, SWK 424, SWK 496, SWK 493, BIO 101, CWP 102, and a minimum 2.5 GPA in the SWK major and cumulative. This course involves a supervised internship where students develop and complete a learning contract in conjunction with their fieldwork agency that includes demonstrating mastery of the required social work practice behaviors. Additionally, it involves a concurrent on-campus seminar that integrates and supports all previous social work coursework and demonstration of mastery. Offered spring only.

**SWK 495 SPECIAL PROJECT**

1-3, 0/0

Offered occasionally.

**SWK 496 INTEGRATIVE SEMINAR I**

3, 3/0

Prerequisites: SWK Majors Only, SWK317, SWK320, SWK423, and SWK424. GPA of 2.5 or Above in SWK Major AND Overall. Focus on the integration of practice behaviors and skills used in social work. Emphasis on the engagement and assessment phases of generalist social work practice. Offered every fall.

**SWK 497 INTEGRATIVE SEMINAR II**

3, 3/0

Prerequisites: SWK Majors Only, Senior standing, SWK 220, SWK 301, SWK 307, SWK 308, SWK 317, SWK 320, SWK 419, SWK 422, SWK 423, SWK 424, SWK 493, SWK 496, BIO 101, CWP 102. Integration and demonstration of social work practice behaviors and skills required by the Council on Social Work Education. Emphasis on intervention and evaluation of generalist practice.

**SWK 499 INDEPENDENT STUDY**

3-9, 0/0

Offered occasionally.

# Sociology (SOC)

## SOC 100 INTRODUCTION TO SOCIOLOGY

3, 3/0; SS14

An introduction to the study of human society, its culture, institutions, processes, and change, including an examination of socialization, and relationships between and among individuals and groups in society. A prerequisite for many other courses in sociology and a requirement for all sociology majors. Useful for students planning careers in which they must interact with people of varying social and economic statuses. Offered every semester.

## SOC 189 TOPIC COURSE

1, 0/0

Current topics in Sociology. Offered occasionally.

## SOC 199 INTRODUCTION TO COMPUTER USE IN THE SOCIAL SCIENCES

3, 3/0

Hands-on introduction to the application of computers to applied social research problems, including a review of past practices, current uses, and future trends; computer analysis of data to develop insights into the ways applied sociologists use computers in their work. Offered occasionally.

## SOC 204 CLASSICAL SOCIOLOGICAL THEORY

3, 3/0; WIIF

Prerequisites: SOC 100. Ideas developed by the early founders of sociology, including Auguste Comte, Karl Marx, Max Weber, Emile Durkheim, Georg Simmel, Herbert Spencer and their contemporaries. Course offered every semester.

Equivalent Course: SOC 400

## SOC 208 SOCIOLOGY OF CONTEMPORARY CHINA

3, 3/0

Contemporary China from various sociological perspectives; brief history of China; recent developments of social structure, cultural values and norms in China; comparison of China and Western societies; practical outcomes of China studies. Offered occasionally.

## SOC 212 FEMINIST THEORY

3, 3/0

Background in feminist social theory and changes in feminism over time. Introduction to theoretical analysis from a feminist perspective. Offered occasionally.

Equivalent Course: WGS 212

## SOC 240 ANALYZING SOCIAL PROBLEMS

3, 3/0; DI14, SS14

Analysis of several major social problems selected according to faculty and student needs and interests; a variety of approaches, techniques, and theories will be used. Offered Every Semester.

## SOC 250 SOCIOLOGY OF BUFFALO, NEW YORK

3, 3/0

Prerequisite: SOC 100. The city of Buffalo from the perspectives of socio-historical development, socioeconomic conditions, environmental conditions, and neighborhood development. Use of secondary data and field experiences to better understand the condition of the city and its neighborhoods. Includes a field component as part of regular class time and outside assignments. Students complete term papers based on readings, research, and field work. Offered occasionally.

## SOC 295 RESEARCH EXPERIENCE IN SOCIOLOGY

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

## SOC 299 SOCIAL STATISTICS

3, 3/0; IM14

Prerequisites: SOC100. Overview of the major statistical concepts necessary for sociological research and analysis of social data. Introduction to statistical software and methods to analyze social data. Topics include database construction, database management, descriptive statistics, probability, inferential statistics, statistical association, and data presentation. Required for sociology majors. Offered every semester.

Equivalent Course: SOC 301

## SOC 300 METHODS IN SOCIAL RESEARCH

3, 3/0; CT14

Prerequisite: SOC 100. The nature of scientific evidence, induction, and deduction; the application of scientific methods to sociological data; the use of statistics and other means of data collection; case histories, narrative and descriptive methods; methods of writing for publication; use of social materials from journals and books as illustrative material. Offered Every Semester.

## SOC 301 SOCIAL STATISTICS

3, 3/0; IM14

Prerequisite: SOC 100. Statistical methods and reasoning will be used to analyze and clarify sociological information; Also, operationalizing variables; database management; probability; descriptive statistics; inferential statistics; and data presentation. Software applications, specifically SPSS and SAS, familiarize students with recent and powerful technology in the field. Offered Every Semester.

Equivalent Course: SOC 299

## SOC 302 QUALITATIVE METHODS

3, 3/0; CT14

Prerequisites: SOC 100. Introduces students to the basics of conducting qualitative field research. Requires original qualitative research projects. Prepares students for senior-level capstone coursework. Offered occasionally.

## SOC 310 SOCIOLOGY OF SEX AND GENDER

3, 3/0; DI14

Critical examination of the roles women and men play in society; social statuses of women and men will be analyzed historically, comparatively, demographically, theoretically, and biologically; sociological implications of sex inequality in the economy and political systems, marriage, family relationships, and other social roles. Offered occasionally.

## SOC 312 WOMEN IN SOCIETY

3, 3/0; DI14

Multifaceted analysis of women in society; women's issues in relation to the social and natural sciences; critical examination of modern societies in light of women's perspectives. Offered spring only.

**SOC 320 SOCIOLOGY OF THE FAMILY**

3, 3/0

Prerequisite: SOC 100. The family as a social institution, its historical development, function and structure, and interaction with other institutions; cross-cultural comparisons are made. The current status of the family, diversity in contemporary American families, as well as stability and change in the life course of families. Offered occasionally.

**SOC 321 THE AFRICAN AMERICAN FAMILY**

3, 3/0; DI14

Prerequisite: SOC 100. The examination of the relationship between American social institutions and the African American family and familial relations within the African American family. Offered fall only.

Equivalent Course: AAS 321

**SOC 322 SOCIOLOGY OF CHILDHOOD AND YOUTH**

3, 3/0

Prerequisite: SOC 100. The social construction of childhood and adolescence; interactive nature of the socialization process; children's production of peer culture; global social problems faced by children and youth. Offered spring only.

**SOC 323 SOCIOLOGY OF EDUCATION**

3, 3/0

Prerequisite: SOC 100. The social organization of education in the U.S. and elsewhere, and schools as social institutions reflecting and influencing society; roles and behaviors of participants in the educational system, including educational goals, theories, philosophies, and methods; educational achievements, historical developments, and future trends. Offered occasionally.

**SOC 324 SOCIOLOGY OF SPORT**

3, 3/0

Presents an application of the sociological perspective to sport; focuses on the social organization of sports-related activities; the norms, goals, and values of sport using theoretical frameworks and empirical tools of the social sciences. Offered occasionally.

Equivalent Course: HPR 319

**SOC 325 SOCIOLOGY OF MEDIA**

3, 3/0

Prerequisites: SOC 100 or 6 credit hours of sociology. The role of film and photography on social interactions and memories; the contradictions and challenges of social media; the social and political potential of various media; the saturation or oversaturation of media in our lives. Key texts from leading authors and thinkers in the field of sociology of media. Offered occasionally.

**SOC 326 BLACK FEMINIST THOUGHT**

3, 3/0

This course provides an introduction to Black feminist thought from the 19th century through the present. Topics include the origins and development of intersectional thinking, intersectionality in contemporary social thought, and critical race theory. The course draws from multiple academic disciplines, public intellectualism, and activist work. Offered occasionally.

Equivalent Courses: AAS 326, WGS 326

**SOC 328 SOCIOLOGY OF RELIGION**

3, 3/0

Prerequisite: SOC 100. Theories in the sociology of religion will be examined. Emphasis is upon religion and social change; religion in society; church and sect; social class and religion; the role of the minister, priest and rabbi. Offered fall only.

Equivalent Course: SOC 420

**SOC 330 SOCIAL PSYCHOLOGY**

3, 3/0

Prerequisite: SOC 100. Human motivation and the nature of attitudes, including attitude change and stability; social phenomena, such as interpersonal perception and behavior, role prescriptions and role conflict, prejudice, and conflict resolution. Offered Every Semester.

**SOC 331 SOCIOLOGY OF GROUP DYNAMICS**

3, 3/0

Prerequisite: SOC 100. The social structure and social dynamics of social groups, including the division of labor, types of leadership, communication and authority structures, social conflict, and social control mechanisms. The relationship of the individual to the group; comparisons of different types of "natural" groups such as family, peers, work groups; and the use of "experimental" groups to investigate various aspects of group life. Offered occasionally.

**SOC 333 SOCIOLOGY OF SOCIAL MOVEMENTS**

3, 3/0; DI14

Prerequisite: SOC 100. Social movements, their character, development, dynamics, and consequences; the relationship between discontent at the individual and wider social levels. Selected social movements and sociological theories. Offered occasionally.

**SOC 340 SOCIOLOGY OF THE CITY**

3, 3/0

Prerequisite: SOC 100. The social organization of urban life in the U.S. and elsewhere, with emphasis on the growth and development of cities and metropolitan areas; lifestyle in the city and suburbs; the relationship of power and social control to urban stratification and the distribution of wealth; racial and ethnic distribution and relationships in urban settings; such urban problems as poverty, blight, crime and violence; and urban planning and redevelopment. Offered occasionally.

**SOC 350 POWER, CLASS, AND INEQUALITY**

3, 3/0; DI14

Prerequisite: SOC 100. Historical and contemporary dimensions of social inequality and power differentials in the United States and globally; contrasting theoretical interpretations of the origins and significance of social inequality, including the intersectional relationship between inequality on the basis of gender, race, ethnicity, and class; current trends and projected transformations in social inequality. Offered spring only.

**SOC 351 SOCIOLOGY OF RACE AND ETHNICITY**

3, 3/0; DI14

Prerequisite: SOC 100. The study of racial and ethnic groups in American and other societies; focuses on forms, causes, and effects of prejudice and ethnic conflicts, and the changing relationships of these groups to the larger society. Possible solutions to social problems involving issues of race and ethnicity are also explored. Offered Every Semester.

Equivalent Course: AAS 351

**SOC 352 SOCIOLOGY OF AGING**

3, 3/0

Prerequisite: SOC 100. How society structures the experience of aging; major transitions and role changes experienced by the elderly within social institutions such as family, the economy, and religion; understanding the way these same institutions adapt to an aging population. Includes investigation of programs and policies aimed at assisting individuals at varying levels of independence throughout the aging process. Offered occasionally.

**SOC 353 ENVIRONMENT AND SOCIETY**

3, 3/0

Prerequisite: SOC 100 or 6 credit hours of sociology. Analyzes the relationship of society and the natural environment (global, national, and local levels) using empirical and theoretical methods. Specific topics include the "toxics crisis," Central America, work, and environmental racism. Interprets societal structures and processes that lead to ecological crises and responses to them. Offered occasionally.

**SOC 360 SOCIOLOGY OF WORK**

3, 3/0

Prerequisite: SOC 100. The social relations surrounding the world of work as the contours of modern urban-industrial society emerge, mature, and begin to decline; typical forms of work in industry; the functions of work organizations; changing of structures of social class; patterns of labor relations; the transfer of these forms to non-industrial and government contexts; how these factors influence the interest and meaning workers find in their work; the consequences for social action and social change. Offered fall only.

**SOC 366 CULTURAL PROFICIENCY AND PUBLIC ACHIEVEMENT**

4, 3/0; DI14

Public achievement serves as a framework for analyzing diverse student perspectives, opinions, and assets to identify and meet the needs of different cultural groups and to learn to work effectively in cross-cultural settings. Students will be provided with practical experiences in implementing a project with children in a local school district. Offered occasionally. Equivalent Course: SPF 366

**SOC 370 SOCIOLOGY OF DEVIANT BEHAVIOR**

3, 3/0

Prerequisite: SOC 100. Deviant behavior in American society; its nature, theoretical perspectives, and societal reactions; deviance as both an interactive and political process, with special attention paid to the development of deviant identities; specific behaviors may include substance abuse, sexual deviance, crime and delinquency, mental illness, and social protest. Offered occasionally.

**SOC 380 SOCIOLOGY OF CRIME**

3, 3/0

Prerequisite: SOC 100. Crime, its nature, variation, and causation; social responses to crime; methods of crime prevention, punishment, and treatment of offenders. Theoretical perspectives and controversies are presented in social and historical context. Offered occasionally.

**SOC 381 SOCIOLOGY OF VIOLENCE**

3, 3/0

Prerequisite: SOC 100. An analysis of various manifestations of violence. Theories of violence will be presented, as well as investigation into such specific topics as child abuse, battered spouses, rape, violence in schools, and collective violence; programs which deal with violence. Offered occasionally.

**SOC 382 SOCIOLOGY OF LAW**

3, 3/0

Prerequisite: SOC 100. The numerous ways in which law permeates all forms of social behavior; focuses on the law itself and the social context within which it has been created and exists; dominant theoretical perspectives and sociological methods used to explain the interrelationships between law and society, including types and purposes of law, major legal organizations, the lawmaking process, law and social control, law and dispute resolution, law and social change, and the legal profession. Offered occasionally.

**SOC 383 SOCIOLOGY OF PUNISHMENT AND CORRECTIONS**

3, 3/0

Prerequisite: SOC 100. Recent theories and research findings regarding correctional practice; offender typologies, the nature and forms of treatment, and obstacles to treatment. Offered occasionally.

**SOC 389 TOPIC COURSE**

3, 0/0

Current advanced topics in Sociology. Offered occasionally.

**SOC 390 SOCIOLOGY OF JUVENILE DELINQUENCY**

3, 3/0

Prerequisite: SOC 100. Juvenile delinquency; description, extent, and sociological theories of explanation; institutions and agencies dealing with and/or attempting to prevent delinquency, including courts, law enforcement agencies, social service agencies, and educational institutions; development of data. Offered occasionally.

**SOC 391 SOCIOLOGY OF ADDICTION**

3, 3/0

Prerequisite: SOC 100. Alcohol and drug abuse as a social problem and a sociological phenomenon; nature of drug and alcohol abuse, the situations in which this behavior occurs, and the characteristics of users; legal, medical, and other efforts made to influence addicts. Offered occasionally.

**SOC 392 SOCIOLOGY OF SEXUAL BEHAVIOR**

3, 3/0

Prerequisite: SOC 100. Recent sociological findings concerning sexual behavior as a social process; the nature of various sexual practices, such as homosexuality and sadomasochism in light of sociological theory; sociological literature concerning sexual behavior with special emphasis on the interactionist approach. Offered occasionally.

**SOC 393 SOCIOLOGY OF MENTAL ILLNESS**

3, 3/0

Prerequisite: SOC 100. Sociological perspectives on mental health and illness, including their social histories; includes evaluation of social factors and processes involved in modern approaches to the causes and treatment of mental illness; problems of definition and diagnosis; recent research findings in areas of epidemiology, institutional care and control of the mentally ill, the care of mental patients, and social issues. Offered fall only.

**SOC 400 FOUNDATIONS OF SOCIOLOGICAL THOUGHT**

3, 3/0; WIIF

Prerequisites: SOC 100 and 6 additional credit hours in sociology. Ideas developed by the early founders of sociology, including Karl Marx, Max Weber, Emile Durkheim, and their contemporaries. Offered Every Semester.

Equivalent Course: SOC 204

**SOC 408 CONTEMPORARY SOCIOLOGICAL THEORY**

3, 3/0; WIIF

Prerequisites: SOC 100 and 6 additional credit hours of sociology. The significance and uses of sociological theory; includes the major current approaches to understanding society and social life, such as contemporary Marxism, conflict theory, functionalism, and the interpretive theories, such as symbolic interactionism, phenomenological sociology, and ethnomethodology; and theories of rational choice such as behavioral sociology and exchange theory. Newly developing perspectives such as feminist theory and postmodernism. Offered Every Semester.

**SOC 430 SOCIOLOGY OF INTERNATIONAL DEVELOPMENT AND UNDERDEVELOPMENT**

3, 3/0

Prerequisites: SOC 100 and upper-division status. Societal development and change on an international level, with emphasis on the third world; topics include the major sociological theoretical models, conceptual frameworks and assumptions of development; the emergence and dynamics of the world system; the international division of labor; the interplay of development with gender, race, and ethnicity; social policy alternatives and strategies of social change and liberation. Offered occasionally.

**SOC 484 PRACTICUM IN TEACHING SOCIOLOGY**

3, 3/0

Prerequisites: SOC 100 and 15 additional credit hours in Sociology; 3.0 GPA and 3.0 in Sociology. How sociology classes are constructed and administered. Instruction in lecture development, exam construction, and record keeping. Experience in mentoring and helping to prepare students for exams. Required journal and analysis paper. Offered occasionally.

**SOC 485 MOCK TRIAL**

3, 3/0

Prerequisite: Upper-division standing or permission of instructor. Simulation of a trial court or appellate court proceeding involving teams of students acting as prosecutor/plaintiffs' attorneys, defense attorneys, and witnesses. Students develop case strategy, analyze evidence, integrate legal precedent, prepare a written brief, question witnesses, and present oral arguments to the court in opening and closing statements. Final project is a mock trial presentation held in a formal courtroom setting. Offered Every Semester.

Equivalent Courses: CRJ 485, PSC 485

**SOC 486 PRACTICUM IN APPLIED SOCIOLOGY**

3, 3/0

Prerequisite: SOC 100. The study of field research techniques in the classroom, subsequently applied during the completion of 75 hours of field experience working with an agency or organization in the community. Offered occasionally.

**SOC 488 INTERNSHIP IN SOCIOLOGY**

1-15, 0/0

Prerequisites: SOC 300 or SOC 302; SOC 400; senior standing; faculty intern supervisor permission. Supervised fieldwork in appropriate agencies where students expand their knowledge of sociology and establish interactive ties in the job market. Academic components include orientation, training sessions, ongoing conferences with faculty/ agency supervisor, log/journal of the field experiences, and final report. Offered Every Semester.

**SOC 490 SEMINAR IN SOCIOLOGY**

3, 3/0

Prerequisites: SOC 100, SOC 300 or SOC 302, SOC 204, senior status. Research in selected area(s) of sociology; designing and conducting original social research. Required for sociology majors. Offered Every Semester.

**SOC 491 TOPICAL SEMINAR**

3, 3/0

Prerequisites: SOC 100, 6 credit hours of sociology in a related field, and permission of instructor. In-depth special problems in sociology. Interested students should contact a member of the sociology faculty, who will secure approval from the Sociology Department. The course is then listed in the master schedule with a subtitle indicating the area of special concentration.

**SOC 495 SPECIAL PROJECT**

1-3, 0/0

Offered occasionally.

**SOC 497 SPECIAL WORKSHOP**

3, 0/0

Sociology workshop. Offered occasionally.

**SOC 499 INDEPENDENT STUDY**

3-12, 0/0

Offered occasionally.

## Spanish (SPA)

**SPA 101 BEGINNING SPANISH I**

3, 3/0; GE14

Fundamentals of Spanish with emphasis on the spoken and written language. Offered Every Semester.

**SPA 102 BEGINNING SPANISH II**

3, 3/0; GE14

Prerequisite: SPA 101. Continuation of SPA 101. Offered Every Semester.

**SPA 106 SPANISH FOR EDUCATION PROFESSIONALS I**

3, 3/0

Prerequisites: SPA102 or three full years of 7-12 Spanish study. Targets ACTFL Novice-High-level proficiency in Spanish with a focus on educational contexts. Taught in Spanish with the exception of outside readings in relevant professional literature. Offered Every Semester.  
Equivalent Course: SPA 200

**SPA 189 TOPIC COURSE**

1-3, 0/0

Current topics in Spanish. Offered occasionally.

**SPA 200 SPANISH FOR EDUCATION PROFESSIONALS I**  
3, 3/0

Prerequisites: SPA102 or three full years of 7-12 Spanish study. Targets ACTFL Novice-High-level proficiency in Spanish with a focus on educational contexts. Taught in Spanish with the exception of outside readings in relevant professional literature. Offered Every Semester.  
Equivalent Course: SPA 106

**SPA 201 INTERMEDIATE SPANISH I**  
3, 3/0

Prerequisite: SPA 102 or equivalent. Further development of basic skills with emphasis on reading and writing. Offered Every Semester.

**SPA 202 INTERMEDIATE SPANISH II**  
3, 3/0

Prerequisite: SPA 201 or equivalent. Continuation of SPA 201. Offered Every Semester.

**SPA 203 PROFESSIONAL SPANISH I**  
3, 3/0

Prerequisites: SPA102 or equivalent. Taught in Spanish. ACTFL (American Council on the Teaching of Foreign Languages) Intermediate-Low-level-targeted study of common oral and written interactions in the Spanish workplace, with a focus on basic proficiency in common professional contexts. Offered annually.

**SPA 204 PROFESSIONAL SPANISH II**  
3, 3/0

Prerequisites: SPA 201 or SPA 203. Taught in Spanish. ACTFL (American Council on the Teaching of Foreign Languages) Intermediate-Mid-level-targeted study of Spanish with a focus on proficiency in a diversity of professional and regional contexts. Offered annually.

**SPA 206 SPANISH FOR EDUCATION PROFESSIONALS II**  
3, 3/0

Prerequisites: SPA106 or SPA201 or four full years of 7-12 Spanish study. Targets ACTFL Intermediate-Low-level proficiency in Spanish with a focus on educational contexts and field-based work with P-12 Latino students. Taught in Spanish with the exception of outside readings in relevant professional literature. Offered Every Semester.

**SPA 295 SPECIAL PROJECT**  
1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**SPA 300 THE CIVILIZATION OF LATIN AMERICA**  
3, 0/0

Prerequisite: SPA 302. Taught in English. Cultural diversity of the Latin American people, with emphasis on their achievements, customs, and ways of life as affected by geographic, historical, political, and economic factors. Offered occasionally.

**SPA 301 INTRODUCTION TO HISPANIC CULTURES**  
3, 3/0; CT14, IM14, WIIF

Prerequisite: SPA 202 or equivalent, instructor permission. Intermediate-High-level study of the Spanish language through exploration of Spanish-speaking cultures. Taught in Spanish. Offered Every Semester.

**SPA 302 INTRODUCTION TO HISPANIC MEDIA**  
3, 3/0

Prerequisites: SPA301 or equivalent. Advanced-Low-targeted study of the Spanish language through exploration of Spanish-speaking cultures. Taught in Spanish. Offered Every Semester.

**SPA 303 INTRODUCTION TO READING HISPANIC LITERATURE**  
3, 3/3

Prerequisites: SPA 301. Introduction to the reading of literature written in Spanish, from both Spain and Latin America. Practice in reading and analyzing literary texts. Further development toward American Council on the Teaching of Foreign Languages (ACTFL) Advanced-Low language proficiency. Taught in Spanish. Offered fall only.

**SPA 304 SPANISH FOR SPANISH SPEAKERS**  
3, 3/0

Prerequisites: Placement test for Spanish speakers. An overview of those aspects of Spanish grammar that will enhance bilingual students' effectiveness in oral and written communication in Spanish. Special attention will be given to Anglicisms. Offered occasionally.

**SPA 305 SPANISH PHONETICS**  
3, 0/0

Prerequisites: SPA 301 and SPA 302. The speech sounds of Spanish. Comprehension and pronunciation difficulties caused by differences in the sound systems of English and Spanish. Exercises aimed at improvement of pronunciation and intonation. Offered fall only.

**SPA 306 CIVILIZATION AND CULTURES OF SPAIN**  
3, 3/0

Prerequisites: SPA 301. Taught in Spanish. Cultural diversity of the Spanish people. Their achievements, customs, and way of life as affected by geographic, historical, political, and economic factors. Further development toward American Council on the Teaching of Foreign Languages Advanced-Mid language proficiency in Spanish. Offered every spring.

**SPA 307 SPANISH AUTHORS PRE-1800**  
3, 3/0

Prerequisites: SPA 302. Taught in Spanish. Overview of representative prose, poetry and theatrical works by authors from Spain from the eleventh through eighteenth centuries, studied in historical and broad artistic context. Further development toward the American Council on the Teaching of Foreign Languages Advanced-Mid language proficiency. Offered fall only.

**SPA 308 SPANISH AUTHORS 1800-PRESENT**  
3, 3/0

Prerequisites: SPA 302. Taught in Spanish. Overview of representative prose, poetry and theatrical works by authors from 19th century Spain to the present, studied in historical and broad artistic context. Further development at the American Council on the Teaching of Foreign Languages Advanced-Mid language proficiency. Offered spring only.

**SPA 309 CULTURE AND CIVILIZATION OF LATIN AMERICA**

3, 3/0

Prerequisites: SPA 202. Taught in Spanish. Cultural diversity of the Latin American people, with emphasis on their achievements, customs and ways of life as affected by geographic, historical, political, and economic factors. Further development toward American Council on the Teaching of Foreign Languages Advanced-Mid proficiency level. Offered every fall.

**SPA 310 SPANISH AMERICAN AUTHORS: 1492 TO 1810**  
3, 3/0

Prerequisite: SPA302. Taught in Spanish. Literature-centered overview of representative prose and poetry and essays by authors from Spanish America from the late fifteenth through early nineteenth centuries, studied in historical and broad artistic context. Further development into the American Council on the Teaching of Foreign Languages (ACTFL) Advanced-Mid language proficiency in Spanish. Offered spring only.

**SPA 311 SPANISH AMERICAN AUTHORS 1810S-PRESENT**

3, 3/0

Prerequisite: SPA302. Literature-centered overview of representative prose and poetry and essays by authors from Latin America from the nineteenth through the present, studied in historical and broad artistic context. Further development into the American Council on the Teaching of Foreign Languages (ACTFL) Advanced-Mid language proficiency in Spanish. Taught in Spanish. Offered fall only.

**SPA 317 BUSINESS SPANISH**

3, 3/0

Prerequisite: SPA 301, SPA 302, or equivalent. Introduction to Spanish commercial language. Extensive practice in translating and composing Spanish business communiqués.

**SPA 321 ISSUES AND THEMES IN CONTEMPORARY HISPANIC CULTURES**

3, 3/3; CT14, IM14, WIIF

Prerequisites: SPA302 or equivalent. In Spanish. Development and practice of Spanish language through exploration of current issues facing Latin America and Spain. Targeted toward the American Council on the Teaching of Foreign Languages (ACTFL) Advanced-Mid-level. Offered occasionally.

**SPA 389 TOPICS COURSE**

3, 0/0

Current advanced topics in Spanish. Offered occasionally.

**SPA 398 SPANISH FOR HEALTH AND SOCIAL SERVICE PROFESSIONS**

3, 3/0

Prerequisite: SPA 202 or SPA 204. Taught in Spanish. Overview of key literacies and linguistic features of Spanish used in a range of medical and social service contexts. Further development toward the American Council on the Teaching of Foreign Languages Advanced-Mid language proficiency level. Offered every fall.

**SPA 399 SPANISH FOR THE LEGAL PROFESSIONS**  
3, 3/0

Prerequisite: SPA 202 or SPA 204. Taught in Spanish. Overview of comparative law related to differences between legal systems in US and Spanish-speaking countries, including key literacies and linguistic features of Spanish pertaining to US penal and civil law. Further development toward the American Council on the Teaching of Foreign Languages Advanced-Mid language proficiency level. Offered every fall.

**SPA 401 SPANISH FOR SPANISH TEACHING**  
3, 3/0

Prerequisites: Must be officially admitted to the Spanish Education BS or Post-Baccalaureate 7-12 Spanish Certification Program. Survey of classroom use of Spanish and professional literature on Spanish pedagogy. Offered fall only.

**SPA 402 SPANISH DRAMA OF THE GOLDEN AGE**  
3, 3/0

Prerequisite: SPA 307. Prelopidistas and the works of Lope de Vega, Tirso de Molina, Juan Ruiz, de Alarcson, and others.

**SPA 403 SPANISH COURT INTERPRETING**  
3, 3/0

Prerequisites: MCL 370, SPA 399 and a minimum of advanced-low proficiency in English and Spanish (American Council on the Teaching of Foreign Languages). Taught in Spanish. Builds on consecutive and simultaneous interpreting skills learned in MCL 370, with a focus on fundamental knowledge, skills, and dispositions related to Spanish court interpreting. Offered every spring.

**SPA 404 CERVANTES**

3, 3/0

Prerequisite: SPA 307. Reading and analysis of Don Quixote or the Novelas Exemplares. Offered alternate years.

**SPA 407 SPANISH COURT INTERPRETING PRACTICUM**  
3, 1/0

Prerequisites: MCL 370, SPA 403 and advanced-low proficiency in English and Spanish according to the ACTFL scale (American Council on the Teaching of Foreign Languages) Taught in Spanish. Supervised legal interpreting and translation, focused on fostering habits of critical self-reflection required to successfully pass the NY Unified Court System Interpreting Exam. Some emphasis on improvement in translation of legal texts from Spanish to English. Offered every fall.

**SPA 408 TWENTIETH-CENTURY SPANISH LITERATURE**

3, 3/0

Prerequisite: SPA 308. Appreciation, analysis, and criticism of major trends in the development of Spanish poetry and theater of the twentieth century. Offered occasionally.

**SPA 410 LITERACY FOR SPANISH TEACHERS**  
3, 3/3

Prerequisites: SPA 301. Emphasis on the promotion of literacy skills in Spanish instruction. Offered spring only.

**SPA 411 SPANISH AMERICAN LITERATURE OF THE NINETEENTH AND TWENTIETH CENTURIES: NOVEL, SHORT STORY, AND ESSAY**

3, 3/0

Prerequisite: SPA 310 or SPA 311. Major trends in these genres in the context of the cultural diversity of the hemisphere. Offered occasionally.

**SPA 415 ADVANCED GRAMMAR AND COMPOSITION**  
3, 3/0

Prerequisites: SPA 301 and SPA 302. Elements of stylistics and selected grammar topics. Special attention given to common errors of English speakers. Offered alternate years.  
Equivalent Course: SPA 421

**SPA 416 ADVANCED CONVERSATION**  
3, 3/0

Prerequisite: SPA 415 and upper-division status, or permission of instructor. Development of speaking and aural comprehension at the advanced level. Required for secondary education majors. Offered spring only.

**SPA 421 STRUCTURE OF MODERN SPANISH**  
3, 0/0; CT14, IM14

Prerequisites: SPA302 or equivalent. Taught in Spanish. A thorough analysis of Spanish linguistics, including its diachronic, phonemic, phonological, morphosyntactic and sociopragmatic aspects. Targeted toward the American Council on the Teaching of Foreign Languages (ACTFL) Advanced-Mid-level. Offered J Term and Summer Only.  
Equivalent Course: SPA 415

**SPA 495 SPECIAL PROJECT**  
1-3, 0/0

Offered occasionally.

**SPA 496 SEMINAR I**  
3, 3/0

Prerequisite: Permission of instructor. Topic chosen by instructor. Offered occasionally.

**SPA 497 SEMINAR II**  
3, 3/0

Prerequisite: Permission of instructor. Topic chosen by instructor. Offered occasionally.

**SPA 499 INDEPENDENT STUDY**  
3, 0/0

Offered occasionally.

## Speech Communication (SPC)

**SPC 103 INTRODUCTION TO HUMAN COMMUNICATION**  
3, 3/0; HU14

Exploration of communication as the basis for personal and social interaction; focuses on roles of both consumers and producers of messages; investigation of various modes of communication. Offered Every Semester.

**SPC 189 TOPIC COURSE**  
9, 0/0

Current topics in theoretical aspects of communication. Offered occasionally.

**SPC 205 INTRODUCTION TO ORAL COMMUNICATION**  
3, 3/0

Basics of oral communication; examining the principles and contexts of communication; focus on the communication process, interviewing, public discussion, group problem solving, public speaking, and criticism of public messages. Offered Every Semester and Summer.

**SPC 295 SPECIAL PROJECT**  
1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**SPC 306 PUBLIC SPEAKING**  
3, 0/0

Prerequisite: SPC 205. Organization, delivery, and evaluation of public speech from a performance and analytical framework for professional, social, public, and small group situations. Offered fall only.

**SPC 307 GROUP COMMUNICATION**  
3, 3/0

Prerequisite: SPC 205. Interdisciplinary approach to examination of the theoretical and practical dimensions of communication in small-group decision-making and problem-solving situations. Offered Every Semester.

**SPC 309 PERSUASION AND PROPAGANDA**  
3, 3/0

Theory and practice of persuasion in various media contexts; analysis of social implications, ethical base, and impact of persuasive messages; analysis of contemporary propaganda in media contexts. Offered fall only.

**SPC 311 INTERCULTURAL COMMUNICATION**  
3, 3/0; DI14

Prerequisite: Upper-division status. Examination of theory and practice of intercultural communication; exploration of ways to bridge differences based on culture, ethnicity, religion, gender, age, and other potential social barriers. Offered Every Semester.

**SPC 315 MEDIA PERFORMANCE**  
3, 3/3

Prerequisite: SPC205. Principles and theories of voice performance for radio and other forms of media technology; techniques for marking and reading written scripts; focus on body language and vocal nuance; application to animation, storytelling, and commercial voiceovers. Offered Every Semester.

**SPC 321 RHETORICAL CRITICISM**  
3, 3/0

Prerequisite: Upper-division status. Critical analysis of persuasive messages and strategies used by public persuaders; focus on social/ political speeches, commercial advertising, music lyrics, and other forms of purposeful communication. Offered fall only.

**SPC 326 FILM ANALYSIS AND EVALUATION**  
3, 2/1

Prerequisite: junior or senior standing. Aesthetic and philosophical analysis and evaluation of media; focus on ethical issues and themes found in films and media; considering film as an art form; reflection on values; morals; relationships relating to social questions. Offered occasionally.

**SPC 333 RACE, CLASS AND GENDER IN THE MEDIA**  
3, 3/0; DI14

Prerequisite: Upper-division status. Critical analysis examining how American media shapes and represents issues relating to race, class and gender identities and relationships. Offered fall only.



### SPC 389 TOPIC COURSE

9, 0/0

Current advanced topics in theoretical aspects of communication. Offered occasionally.

### SPC 407 ORGANIZATIONAL COMMUNICATION

3, 3/0

Prerequisite: Upper-division status. Theory and practice of communication within task-oriented organizations; focus on the interaction of structure, behavior, and message; role of communication in organizational change. Offered Every Semester.

### SPC 422 MEDIA CRITICISM

3, 3/0

Prerequisite: Upper-division status. Critical analysis of mass media, including print, broadcast, and digital; application to news, documentaries, entertainment programming, and advertising; focus on social, cultural, and political impact of media messages from a rhetorical perspective. Offered occasionally.

### SPC 424 SPECIAL TOPICS IN MEDIA CRITICISM

3, 3/0

Prerequisite: Upper-division status. Critical analysis of mass media, including print broadcast, and digital; focus on the role of media in a particular context (such as electoral politics or war). Offered fall only.

Equivalent Course: COM 424

### SPC 426 DOCUMENTARY FILM ANALYSIS

3, 2/1

Prerequisites: COM 215. Study of selected themes, ideas and movements of the documentary film through analysis of representative documentaries; includes major modes of documentary production and historical, social, ethical and artistic developments of the documentary. Students develop a significant research project focused on selected topic; course may be repeated if topic is different. Offered occasionally.

### SPC 495 SPECIAL PROJECT

1-3, 0/0

Prerequisite: Permission of instructor. Individual project in a theoretical aspect of communication not duplicated by an existing course.

### SPC 499 INDEPENDENT STUDY

3-12, 0/0

Prerequisite: Permission of instructor. Individual academic study in a theoretical area of communication not duplicated by an existing course.

## Speech Language Pathology (SLP)

### SLP 100 STUDENT SPEECH CLINIC

1, 0/0

Accent reduction services for non-native speakers of American English. Hours by arrangement. Offered fall and spring only.

### SLP 101 AMERICAN SIGN LANGUAGE I

3, 3/0; GE14

Fundamentals of American Sign Language (ASL), including basic grammatical features, language functions, and finger spelling. Students will gain adequate receptive and expressive skills for communicating with deaf individuals using ASL. Supplemental lectures focus on issues related to deafness, deaf culture, and signed languages. Offered Every Semester.

### SLP 102 AMERICAN SIGN LANGUAGE II

3, 3/0; GE14

Prerequisite: SLP 101. Continuation of SLP 101. Students gain additional knowledge of American Sign Language (ASL) and the deaf community; increases competence in ASL conversational skills. NOTE: For some majors, SLP 101 AND SLP 201 serve as a foreign language equivalent. Check with your department. Offered every semester.  
Equivalent Course: SLP 201

### SLP 201 AMERICAN SIGN LANGUAGE II

3, 3/0; GE14

Prerequisite: SLP 101. Continuation of SLP 101. Students gain additional knowledge of American Sign Language (ASL) and the deaf community; increases competence in ASL conversational skills. NOTE: For some majors SLP and SLP 101 and SLP 201 serve as a foreign language equivalent. Check with your department. Offered every semester.  
Equivalent Course: SLP 102

### SLP 205 INTRODUCTION TO SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

3, 3/0

Introduction to the professions of speech-language pathology and audiology. Roles, responsibilities, and potential employment settings for each profession discussed. Communication and writing competencies needed for professional success reviewed. Offered fall only.  
Equivalent Course: SLP 220

### SLP 206 BUILDING SOCIAL CONNECTIONS: COMMUNICATION, LANGUAGE AND CONVERSATION

3, 3/0; SS14

Course Description Introduction to the constructs of communication, language, and conversation. Impact of communication, language, and conversational skills in daily life. Development of communication, language, and conversation children birth to five years old. Offered every spring.

### SLP 220 INTRODUCTION TO COMMUNICATION DISORDERS

3, 3/0

Classification and causes of speech, language, and hearing disorders in children and adults; methods of treatment for communication disorders and suggestions for prevention; basic information on typical and atypical speech, language, and hearing development; videotaped observation of individuals presenting various communication disorders. Not open to speech-language pathology majors except by advisement. Offered spring only.

Equivalent Course: SLP 205

### SLP 301 ADVANCED SIGN LANGUAGE

3, 3/0

Prerequisites: SLP 101 and SLP 102 or SLP 201. This is the final course in the American Sign Language (ASL) sequence designed to promote advanced competence in ASL conversational skills to a level that is recommended for work in schools and public agencies that serve the deaf and hard-of-hearing population. Offered every fall.

### SLP 302 CLINICAL PHONETICS

3, 3/0

Production, acoustic analysis, and representation of American English speech sounds, including the various English dialects; application of phonetics to deviations in speech. Students will use International Phonetic Alphabet (IPA) symbols to transcribe typical and atypical speech. Sophomores must obtain permission of instructor. Offered fall only.

### SLP 303 LANGUAGE ACQUISITION

3, 3/0

Prerequisite: SLP 302. Corequisite: SLP 329. Children's acquisition of phonology, morphology, syntax, semantics, and pragmatics; structure and function of language of normal children at different levels of development; comparison and contrast of theories of language acquisition. International and cultural variations are considered. Offered spring only.

### SLP 304 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING MECHANISMS

3, 3/0

Anatomy and physiology of normal speech and hearing mechanisms; possible deviations; embryonic development; neurology associated with production and reception of oral language. Offered fall only.

### SLP 305 COMMUNICATION DISORDERS I

3, 3/0

Prerequisites: SLP302 and 304. Provides students with knowledge of the scope and responsibilities of the speech-language pathologist; basic knowledge concerning etiology, assessment, and intervention techniques related to articulation, phonology, phonemic awareness in reading and writing, craniofacial anomalies, and fluency disorders, including bilingual and dialectal considerations. Offered spring only.

### SLP 314 AUDIOLOGY

3, 3/0

Corequisite: SLP 328. Hearing and hearing disorders for speech-language pathologists. Anatomy and physiology of the ear and pathologies of the auditory mechanism, decibel notation, and pure-tone audiometry and tympanometry. Offered spring only.

### SLP 328 AUDIOLOGY LAB

1, 0/2

Corequisite: SLP 314. Operation and listening check of the pure-tone audiometer, pure-tone air-conduction threshold testing, screening, otoscopy, tympanometry, and reporting test results. Offered spring only.

### SLP 329 LANGUAGE ACQUISITION LAB

1, 0/2

Corequisite: SLP 303. Observation of language used by typical children. Practice with procedures to collect and analyze typical language. Offered spring only.

### SLP 330 DEAF CULTURE IN AMERICA DEAF CULTURE IN AMERICA

3, 3/0

Study of Deaf culture in America, the effects of hearing loss, communication options and the use of assistive technologies. Study of cultural norms, values, traditions, and rules of social behavior of the Deaf community. Offered every other spring.

### SLP 389 TOPICS COURSE

1-3, 0/0

### SLP 400 LANGUAGE AND LITERACY FOR SPEECH-LANGUAGE PATHOLOGISTS

3, 3/0

Prerequisites: SLP 303 and 329. Role of the speech-language pathologist (SLP) in assessing and treating children with language-based literacy impairments; relationships between speaking, listening, reading and writing; linguistic components required for spoken language and literacy; language-based literacy disorders; assessment and treatment of language literacy impairments. Offered occasionally.

### SLP 401 AURAL REHABILITATION

3, 3/0

Pre-requisites: SLP 302, SLP 303, SLP 314. Effects of hearing loss upon speech perception, speech production, and language development; amplification options and intervention strategies for the hearing impaired; classroom acoustics; definition, diagnosis, and management of central auditory processing disorders. Offered fall only.

### SLP 405 COMMUNICATION DISORDERS II

3, 3/0

Prerequisites: SLP 304, SLP 305. Etiology, assessment, and intervention techniques related to voice disorders, developmental and acquired motor speech disorders, aphasia, traumatic brain injury, dysphagia, and augmentative communication. Cultural and bilingual issues are considered. Offered spring only.

### SLP 411 INTRODUCTION TO LANGUAGE DISORDERS IN CHILDREN

3, 3/0

Prerequisite: SLP 303. Introduction to childhood language disorders, including the demographics and characteristics features of language disorders. Cultural and bilingual issues are considered. Offered fall only.

### SLP 412 SPEECH ACOUSTICS AND PERCEPTION

3, 3/0

Prerequisites: SLP 302, SLP 304, SLP 314. Corequisite: SLP 428. Study of the scientific principles underlying the physiology, acoustics, and perception of normal speech production as a basis for subsequent understanding of disordered speech. Topics include basic concepts of sound, motor and acoustic theories of speech production, speech perception, instrumentation used to measure speech processes, and application to speech pathology. Offered fall only.

### SLP 424 SPEECH-LANGUAGE PATHOLOGY PROGRAMS IN SCHOOLS

3, 3/0

Pre-requisites: SLP 305, SLP 314, SLP 411. In-depth examination of speech-language pathology in schools, including legislative foundations, current models of service delivery, assessment and intervention procedures, organization and administration of programs, emerging trends shaping the future of school speech-language pathology programs. Offered spring only.

## SLP 428 ACOUSTICS LAB

1, 0/2

Corequisite: SLP 412. Direct and guided use of special instrumentation essential to the collection, measurement, and/or analysis of the acoustic components of speech sounds. Focus areas are respiration, phonation, articulation, and resonance. Offered fall only.

## SLP 429 CLINICAL ACTIVITY

1, 0/3

Prerequisites: SLP 303, SLP 305, SLP 314. Observation of evaluation and treatment sessions in speech-language pathology. Offered fall and spring only.

## SLP 495 SPECIAL PROJECT

1-3, 0/0

Offered occasionally.

## SLP 497 WORKSHOP

1-3, 0/0

Offered fall and spring only.

## SLP 499 INDEPENDENT STUDY

3, 0/0

Offered fall and spring only.

# Technology (TEC)

## TEC 101 TECHNICAL DRAWING

3, 2/3

Drawing techniques and part modeling techniques for 3D parametric solid modeling systems; multiview projections using 2- and 3-D geometry, drawing annotation including text, dimensioning and layouts of a variety of drawing types suitable for plotting to scale; part modeling techniques including Industry-standard parametric modeling; introduction to geometric dimensioning and tolerancing; required for industrial technology, electrical engineering technology (smart grid), mechanical engineering technology, and technology education majors. Offered Every Semester.

## TEC 150 TECHNOLOGY IN EVERYDAY LIFE

3, 3/0

The applied physics and technology involved in everyday life in order to gain an understanding of basic science and engineering principles; Newton's laws of motion as they apply to an ice skater and bumper cars; principles of fluid mechanics like water flowing from a garden hose and the buoyancy of ships; heat transfer and phase transitions like water in its three phases and home heating systems; thermodynamic efficiency of automobile engines as well as air conditioners; resonance and mechanical waves developed by music instruments; basic electricity and its many applications from how it is produced by water and wind to how it is used to produce light; light and optics, for example, splitting the colors of sunlight to focusing light in a camera lens. Offered occasionally.

## TEC 200 TOTAL QUALITY MANAGEMENT

3, 3/0; WIIF

Prerequisite: Sophomore status. Fundamental concepts of total quality management; managerial commitment; organization mission and structure; quality problem-solving tools; variation, quality costs; vendor-customer relationships; quality evaluation techniques; quality philosophies of Deming, Crosby, and others. Offered fall only.

## TEC 201 MATERIALS PROCESSING

3, 2/3

Prerequisite: TEC 101. Processes and problems associated with the conversion of materials into useful forms and goods; laboratory activities exemplify the major processes studied. Offered Every Semester.

## TEC 253 FUNDAMENTALS OF BOAT BUILDING

3, 0/6

TEC 253

## TEC 260 DEVELOPMENT OF TECHNOLOGY

3, 3/0

The history of science and technology; the evolution of technology and its effects on humanity, for example, advances in agriculture and health care; era-specific technology such as weapons developed for defense and building processes to construct small communities and large cities; evolution of energy and power leading to current alternatives such as solar energy, wind power, hydroelectric power, fuel cells, and biomass energy; how technology has affected and been affected by ecology, climatology, health care, ethics, war, and politics. Offered occasionally.

## TEC 301 MATERIALS PROCESSING II

3, 2/3

Prerequisite: TEC 201. Continuation of TEC 201. Emphasis on numerical controlled and computerized numerical controlled materials processing. Offered occasionally.

## TEC 302 CAD/CAM (COMPUTER AIDED DRAFTING/COMPUTER AIDED MANUFACTURING)

3, 2/3

Prerequisites: TEC 101 and TEC 201. Using computers to facilitate the production processes of designing, drafting, production planning, cost estimating, and materials processing; using CAD software to create the database for part geometry, material selection, and process requirements; using CAM software to control machines, directly or indirectly, to produce the product. Offered fall only.

## TEC 311 MATERIALS SCIENCE AND TESTING

3, 2/3

The origin of composition of industrial materials: metals and their alloys, woods, fuels, lubricants, cutting fluids, solvents, protective compounds or coatings, inks, adhesives, plastics, and ceramics; applications of testing procedures for identification and determination of physical and chemical properties suitable for specific industrial uses. Offered Every Semester.

## TEC 312 MATERIALS MANAGEMENT

3, 2/3

Prerequisite: TEC 201. Production planning and control functions in industry; techniques and procedures of production planning, scheduling, dispatching, and control. Required for industrial technology majors. Offered spring only.

## TEC 313 STATISTICAL QUALITY CONTROL

3, 3/0; IM14

Fundamentals of probability; sample space, events, probability distributions; binomial, Poisson, and normal distributions; application of probability in quality control; variable and attribute control charts; process capability studies; acceptance sampling; standard tables for sampling plans. Offered fall only.

**TEC 314 ELECTROMECHANICS**

3, 2/3

Fundamental laws of electric circuits; DC and AC circuits, application to electric power systems and electronics industry; fundamentals of electrical machinery, introduction to three-phase systems; laboratory experiments with electrical circuits and devices. Offered Every Semester.

**TEC 319 TECHNOLOGY AND VALUES**

3, 3/0

Prerequisite: Upper-division status. Social and ethical impacts of technology; the often conflicting roles of historical and current creators and users of technology; examination of selected current technical-ethical issues of societal importance. Offered occasionally.

**TEC 321 MEASUREMENT SYSTEMS**

3, 3/0

Prerequisite: TEC 313. Theory and application of measurement; tolerancing, variable, and attribute measurement devices; gauge variation, automated measurement input equipment, and gauge control systems. Offered fall only.

**TEC 323 QUALITY IMPROVEMENT THROUGH DESIGN OF EXPERIMENTS**

3, 3/0

Prerequisite: TEC 313. Various experimental designs applied to a manufacturing environment. One-, two-, and three-factor factorial designs; nested, partially nested, and repeated designs; simple and multiple linear regression techniques presented to enhance quality problem-solving ability. Offered spring only.

**TEC 351 ENERGY SYSTEMS**

3, 3/0

Prerequisites: MAT 124 and PHY 107. Energy and power from sources through conversion systems and mechanisms to the application of power for manufacturing. Offered fall only.

**TEC 400 MARKETING**

3, 3/0

Prerequisite: Upper-division status. Conceptual framework for marketing; the movement of goods and services through channels from source to consumer; product formulation; market research; prudent pricing; distribution channels; promotion systems. Industrial technology (manufacturing option) majors. Offered occasionally.

**TEC 402 ERGONOMICS**

3, 3/0

Prerequisite: Upper-division status. The interaction of people and machines; development and use of human factors information including sensory, cognitive, and psychomotor processes as they influence the design of displays, controls, and work space; environment and safety considerations necessary to achieve desired machine outputs. Offered fall only.

**TEC 403 SYSTEMS ANALYSIS**

3, 3/0; CT14

Prerequisite: Upper-division status. Fundamental concepts and analytical techniques of systems analysis; trends related to modeling, computer technology, feedback, and information systems; quantitative methods and their use in decision making in practical situations involving industrial, managerial, and technological settings. Offered spring only.

**TEC 404 INDUSTRIAL SYSTEMS APPLICATIONS**

3, 2/3; WIIF

Prerequisite: Upper-division status. Investigation of management science and communication principles leading to a series of hands-on laboratory projects, case studies, and group problem-solving/decision-making activities; building positive management communications abilities as applied to the components of contemporary work settings; cultivation and personalization of leadership behaviors such as team building, coaching, and conflict resolution. Offered fall only.

**TEC 405 MANUFACTURING TECHNOLOGY**

3, 2/3; WIIF

Prerequisites: TEC 312 and final semester senior status. Hands-on experience in the manufacturing cycle of a product from the engineering drawing stage through project and processing planning, prototype manufacture and testing; experience in setting time standards and taking time studies. Offered spring only.

**TEC 430 INTRODUCTION TO COMPUTER-AIDED DRAFTING (CAD)**

3, 0/0

TEC 430

**TEC 460 PRODUCTION AND OPERATIONS MANAGEMENT**

3, 0/0

TEC 460

Equivalent Course: BUS 460

**TEC 465 SAFETY MANAGEMENT**

3, 3/0

Prerequisite: Upper-division status. Development of the industrial safety movement; psychology in accident prevention; appraisal of accident cost factors, severity, and frequency; job safety analysis and corrective measures; plant inspection and preventive maintenance; storage and handling of materials; fire prevention; education and training of employees. Offered spring only.

**TEC 488 QUALITY INTERNSHIP**

1-12, 3/0; WIIF

Prerequisite: Completion of 12 credit hours in quality minor or all TEC-prefixed courses in industrial technology quality option. Analysis of a quality problem at a local manufacturing/service organization on or off campus; evaluation is based on a formal written and oral report presentation. Offered Every Semester.

**TEC 495 SPECIAL PROJECT**

1-3, 0/0

Offered occasionally.

**TEC 497 WORKSHOP**

3, 0/0

Offered occasionally.

**TEC 499 INDEPENDENT STUDY**

2-6, 0/0

Offered Every Semester.

# Technology Education (TED)

## TED 100 INTRODUCTION TO TECHNOLOGY EDUCATION 3, 3/0

Prerequisite: Major status. An introduction to technology education for students considering a career as a public school technology teacher; provides information relating to core issues such as New York State Learning Standards, contemporary ideas and practices in the technology classroom; introduces and prepares students for the field service requirement. Offered Every Semester.

## TED 101 RAPID VISUALIZATION 3, 2/3

Basic conceptual and technical skills in technical drawing and illustration; basic drawing techniques from sketching and rapid visualization to rendering and 3-D computer modeling; lectures, demonstration, and practice; intended as a technology foundation course and as a pre-mechanical drawing and pre-CAD course. Offered fall only.

## TED 123 PRINCIPLES OF MANUFACTURING 3, 2/3

Operative principles common to the majority of manufacturing industries; research and development, manufacturing, organization and management; industrial relations; engineering; production; labor; financial control; marketing; quality control. Presentations by leading industrialists. Offered spring only.

## TED 253 FUNDAMENTALS OF BOAT BUILDING 3, 0/6

Prerequisite: DES 105. Fundamentals of boat design, lofting, and construction through lectures, demonstrations, and the construction of a small boat. Offered occasionally.  
Equivalent Course: TEC 253

## TED 300 CONSTRUCTION SYSTEMS 3, 2/3

Exploration of habitable structures through hands-on laboratory experiences. For technology education majors and those who wish to meet certification requirements of New York for teaching technology education in the state's public schools. Offered fall only.

## TED 320 HISTORY AND THEORY OF WATERCRAFT DESIGN 3, 3/0

Prerequisite: DES 215 or permission of instructor. A survey of the history and theory of naval architecture and watercraft design with special attention to the development of design solutions within specific cultural contexts; special emphasis on American small craft and local traditional designs. Offered occasionally.

## TED 349 COMMUNICATIONS SYSTEMS 3, 2/3

Review of communication techniques throughout history; current techniques and modern communications programs and materials; broad spectrum of experiences with conversion and transfer of information from one form to another. Offered fall only.

## TED 360 TECHNOLOGY EDUCATION METHODS AND EVALUATION 3, 3/0; CT14, WIIF

Prerequisites: OEC 301, OEC 302, and EDF 303. Basic principles and methods of teaching technology education subjects; strategies utilized in planning for instruction; strategies utilized in evaluating students, course content, and overall program; teaching and evaluating students with special needs; preparation of instructional materials. Offered Every Semester.

## TED 361 TRANSPORTATION SYSTEMS 3, 2/3

Energy/transportation systems focusing on the moving of people, materials, and products; types of transportation vehicles, energy and power, controls, careers; the effects of transportation systems on the environment and society. Course meets guidelines of the national and state professional associations regarding the systems approach to the technology education discipline. Offered spring only.

## TED 450 STUDENT TEACHING IN TECHNOLOGY EDUCATION 6, 0/0; IM14, WIIF

Prerequisites: CWP 102, BME/CTE 301, BME/CTE 302, EDF 303,, TED 360, EXE 372, EDU 416, minimum cumulative GPA of 2.5. Students must have completed 105 credit hours, including all 33 credit hours of approved technology core courses. Full-time assignment in a junior and/or senior high school as a student-teaching intern working with a supervising teacher and a college supervisor; seminars on campus and in public schools to study teaching techniques, organization, management, oral communication delivery and other aspects of teaching technology education; guided full-time teaching experience including the use of electronic recording to analyze teaching; participation in school and professional activities. Offered Every Semester.

## TED 451 STUDENT TEACHING IN TECHNOLOGY EDUCATION II 6, 0/0

Prerequisites: EDF 303, BME 301 or CTE 301, BME 302 or CTE 302, and TED 360, EXE 372, EDU 416; minimum GPA of 2.5 in major coursework. Full-time assignment in a senior high school as a student-teaching intern working with a supervising teacher and a college supervisor; seminars on campus and in public schools to study teaching techniques, organization, management, and other aspects of teaching; full-time teaching experience including the use of videotape to analyze instructional performance; participation in schools and professional activities. Students must have completed a minimum of 105 credit hours, including all 33 credit hours of required technology core courses. Students must be prepared to accept assignment at any facility and may not enroll in any other college courses. Offered Every Semester.

## TED 453 WOOD/EPOXY BOATBUILDING 3, 2/0

Prerequisite: DES 251. Theory and application of wood/epoxy boatbuilding materials and techniques through the construction of a wood/epoxy skiff. Offered occasionally.

## TED 488 INTERNSHIP 1-12, 0/0

TED 488

## TED 495 SPECIAL PROJECT 1-3, 0/0

TED 497 WORKSHOP  
3, 3/2

Offered occasionally.

TED 499 INDEPENDENT STUDY  
3-12, 0/0

## Television and Film Arts (TFA)

TFA 189 TOPIC COURSE  
3, 3/0

Topic course. Offered occasionally.

TFA 201 INTRODUCTION TO TELEVISION AND FILM  
ARTS  
3, 3/0

Introduction to the history of storytelling and the various ways in which stories can be told today. Emphasis on television, film, theater, and other visual media. Offered spring only.

TFA 295 SPECIAL PROJECT  
1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

TFA 301 TV AND FILM CRITICISM  
3, 3/0; CT14, WIIF

Students study great directors and the screenplays they have produced, focusing on analyzing story structure, characters, and theme of screenplays that compose the established canon. Directors include Spielberg, Kubrick, Hitchcock, Wilder, Allen and Tarantino. Offered spring only.

TFA 350 CINEMATOGRAPHY  
3, 3/0

Prerequisites: Permission of instructor. Intermediate study of the principles of cinematography. Emphasis on aesthetics, exposure, lighting, and selection of film, camera, lenses and filters. Offered occasionally.

TFA 389 TOPIC COURSE  
3, 3/0

Topic course. Offered occasionally.

TFA 401 PRODUCING SHORT FILMS I  
3, 3/0

Prerequisites: TFA 301 and COM 212. Students form virtual video production companies and work collaboratively with other students, alternately assuming the roles of writer, producer, director, and production crew. In the process, students develop the ability to assess their strengths, weaknesses, and interests. Offered fall only.

TFA 420 PRODUCING SHORT FILMS II  
3, 3/0; CT14, IM14, WIIF

Prerequisite: TFA 401. Students function as true "auteurs" using advanced techniques to write, produce, direct, and edit their own single-camera short video project. Emphasis on the effectiveness of the story rather than production quality. Critiques from peers and instructors focus on developing storytelling skills. Offered spring only.

TFA 450 SENIOR PROJECT  
3, 3/0

Prerequisite: TFA 420. Students write produce a television pilot in the genre of their choice. The show will be thirty-minutes. The students in the class will determine the TV pilot's content and production values. There will be a public screening for the final project. Offered fall only.

TFA 460 ADAPTATION  
3, 3/0

Students adapt literature for television or film. They choose a short story, poem, or other piece of literature and translate it into a short script. Offered occasionally.

TFA 470 CAREERS IN TELEVISION  
3, 3/0

Prerequisites: Instructor Permission. This course is offered in New York City as part of the TFA Semester in NYC program. A historical analysis of the television industry combined with a comprehensive curriculum covering the financing, production, distribution and marketing of television programming. Offered annually.

TFA 471 CAREERS IN FILM  
3, 3/0

Prerequisites: Major in Television and Film Arts or Media Production, and instructor permission. A historical analysis of the film industry combined with a comprehensive curriculum covering the financing, production, distribution and marketing of films. Offered annually.

TFA 480 ADVANCED DIRECTING/PRODUCING I  
3, 3/0

Students focus on directing the actor for a single-camera production. Each student directs short scenes from selected plays, then shoots a scene (single camera) as a final project. The class and students from other departments act as the "Acting Company." Offered spring only.

TFA 481 ADVANCED DIRECTING/PRODUCING II  
3, 3/0

Prerequisite: TFA 480. Students direct a scene or series of scenes from a previously produced film, television program, or play and shoot it (multi-camera) as a final project. The class and students from other departments acts as the "Acting Company" and "Production Company." Offered occasionally.

TFA 488 INTERNSHIP  
3-6, 3/0

Students work at organizations to help further their careers in TV, film, or digital media. Supervised field experience in a professional setting for students who have completed extensive academic preparation in the discipline; weekly group meeting; 150 hours of field work for 3 credits.

TFA 495 SPECIAL PROJECT  
1-3, 0/0

TFA 499 INDEPENDENT STUDY  
3, 0/0

## Theater Arts (THA)

THA 106 INTRODUCTION TO THEATER ARTS  
3, 3/0; AR14

An introduction to the art of theater. Examination and analysis of the creative process, elements of production, history, genres and styles of the art form. Attendance at live theater is required. Offered every semester.

**THA 107 THEATER PERFORMANCE FOR NON-MAJORS**  
3, 2/2; AR14

Prerequisite: Instructor permission. Participation in the rehearsal and performance of a Buffalo State College Theater Department production. Offered as required.

**THA 189 TOPICS COURSE**

1-3, 0/0

Lower level topics course in Theater Arts. Offered occasionally.

**THA 200 VOICE AND MOVEMENT I**

3, 2/2

Introduction to basic voice and speech practice. Develop skills and knowledge associated with freeing the natural voice and extending vocal range and physical capacity for sound, and develop awareness of the potential for articulate, precise, and expansive vocal and physical presence. Offered Every Semester.

**THA 216 THEATER FUNDAMENTALS**

3, 3/0

Introduction to the art of theater for department majors. Examines elements of production, history, genres, and styles of theater. Attendance at live theater performance required. Offered as required.

**THA 218 SCRIPT ANALYSIS I: PLAY READING**

3, 3/0

Pivotal plays, classic and modern, that have had an impact on theater. Play structure will be examined and analyzed. Attendance of live performances is required. Offered spring only.

**THA 226 ACTING I**

3, 2/2

Introduction to the fundamental demands of the acting process. Focus and concentration development, improvisation, scene work, improving communication skills and performance; identify and develop the actor's role in the artistic process. Offered every semester.

**THA 227 ACTING II: SCENE STUDY**

3, 2/2

Prerequisite: THA 200 and THA 226. The fundamental demands of preparing, rehearsing, and performing scenes from contemporary plays. Student actors will focus on character development, research, and script analysis as they synthesize concepts from THA 226. Apply previously learned acting skills to the preparation, rehearsal, and performance scenes. Students will further identify themselves as young theater artists and their personal place in the creative process of making theater. Offered Every Semester.

**THA 230 PRACTICUM I: INTRODUCTION TO THEATER TECHNOLOGY**

1, 0/1

Introduction to the elements of technical theatrical; costume, scenery, sound, and lighting production including the proper use of tools and equipment. Emphasis on safety and teamwork. Offered every semester.

**THA 231 THEATER PRACTICUM II**

1, 0/1

Laboratory experience as a run-crew member for a departmental theater production. Offered Every Semester.

**THA 232 STAGE MANAGEMENT**

3, 3/0

Instruction of the student in the duties, responsibilities and techniques of a successful stage manager. Preparation of all materials needed to run a rehearsal and maintain a performance as the stage manager. Participation in one of the departmental productions to explore hands-on work and interactive experiences. Offered as required.

**THA 234 INTRODUCTION TO THEATER DESIGN**

3, 3/0; AR14, IM14, WIIF

Fundamentals of theatrical design using period research, graphic tools and presentation skill. Students are required to attend live theater performances. Offered annually.

**THA 235 COSTUME CONSTRUCTION I**

3, 2/2

Prerequisite: THA 234. The foundation of costume construction. Basic costuming from the ground up with emphasis on period construction, theatrical techniques, and nonconventional methods used in theater, dance, and screen through vocabulary, demonstration, and hands-on production. Offered as required.

**THA 236 DRAFTING FOR THE THEATER**

3, 3/0

Prerequisite: Instructor permission. A study of basic drafting principles as they relate to theatrical design. Computer-aided ground plans, elevations, and sections. Offered occasionally.

**THA 245 STAGE COMBAT I**

3, 2/2

Prerequisite: Instructor Permission. The study of unarmed stage combat techniques, the creation and performance of choreographed fight scenes, physical control and safety. This course is the first of three required for Society of American Fight Directors Actor/Combatant certification. Offered as required.

**THA 295 SPECIAL PROJECT**

1-3, 0/0

Prerequisite: Instructor Permission. Scholarship or creative work conducted under the supervision of a faculty member. Offered occasionally.

**THA 300 VOICE AND MOVEMENT II**

3, 2/2

Prerequisite: THA 200. Intermediate voice and movement course for actors, integrates previously learned voice and movement vocabularies with a variety of acting styles. Introduction of the International Phonetic Alphabet and the General American accent. Offered every fall.

**THA 316 SCRIPT ANALYSIS II**

3, 3/0; CT14, WIIF

Prerequisite: CWP 102. Exploration of scripts as unique forms of writing for public communication and theatrical production. Analysis of playwrights' methods, dramatic structure, historical context and language usage. Attendance of live theater is required. Offered fall only.

**THA 317 THEATRE HISTORY: ANCIENT TO BAROQUE**  
3, 3/0; WC14

Prerequisite: CWP 102 or THA 106. Origins and development of physical theater and theater literature from the ancient period to the baroque period; its function in society and its historical context in both Western and global civilizations. Students examine how theater as an art form is a reflection of or reaction to the socioeconomic, scientific, political, philosophical, and other artistic forms of its surroundings. Students attend live performance. Offered fall only.

**THA 318 THEATER HISTORY: BAROQUE TO MODERN**  
3, 3/0

Prerequisite: Sophomore status and above. The origins and development of physical theater and theater literature from the baroque period to contemporary theater; its function in society and its historical context in both Western and global civilizations. Students read plays and examine how theater as an art form is a reflection of or reaction to the socioeconomic, scientific, political, philosophical, and other artistic forms of its surroundings. Students attend live performances. Offered spring only.

**THA 325 THE BUSINESS OF PERFORMING ARTS**  
3, 3/0

Prerequisite: CWP 102. Comprehensive overview of the numerous aspects of business relating to the performing arts of drama, dance and music. Offered as required.

**THA 327 ACTING III: STYLES**  
3, 2/2

Prerequisites: THA 227 and THA 300. Apply previously learned acting skills to a variety of acting styles in a variety of environments. Student actors will specifically address the demands of physically, intellectually, and emotionally adapting their acting and artistic process. Student actors will also be expected to further define and identify themselves in each new style. Offered spring only.

**THA 329 ADVANCED ACTING: SOLO SHOW**  
3, 2/2

Prerequisite: THA 227 and THA 350, or Instructor Permission. Advanced acting course involving the creation and performance of solo work. Students apply previous theater training in script analysis, directing, rehearsal practices and performance. Offered occasionally.

**THA 330 THEATER PRACTICUM III**  
1, 0/1

Prerequisite: THA 231. Laboratory experience as a crew leader for a departmental theater production. Offered Every Semester.

**THA 331 THEATER PRACTICUM IV**  
1, 0/1

Prerequisite: THA 330. Laboratory experience in the student's area of specialization for a departmental theater production. Offered Every Semester.

**THA 332 PERIOD STYLES AND CULTURE**  
3, 3/0; WC14

Prerequisite: CWP 102. A survey of style from early civilization to the present day. Students identify and describe characteristics of architecture and fashion from a variety of viewpoints. From Ancient Egypt through the 20th century visual information is evaluated based on historical roots and evolution. The course provides the vocabulary and identification of period style necessary to examine and evaluate the translation of a period style to the stage or screen. Offered Every Semester.

**THA 333 SCENE PAINTING**  
3, 2/2

Prerequisite: Instructor Permission. Basic scene-painting techniques applicable to theater, film, and video production; hands-on exploration; creating full-scale painted scenery from scaled drawings; paint mixing; faux finishes, including marble, wood grain, brick, and stone; and specialty paint finishes. Offered occasionally.

**THA 334 COSTUME CONSTRUCTION II**  
3, 2/2

Prerequisite: THA 235. Continuation of Costume Construction I. Advanced costuming techniques emphasizing dyeing, painting, footwear/hosiery, undergarments, accessories, and hat and wig construction as they apply to theater, dance, opera, film, and television. Offered occasionally.

**THA 335 COSTUME DESIGN FOR THEATER**  
3, 3/0

Prerequisites: THA 234 or Instructor Permission. Introduction to costume design for a variety of period and contemporary genres; script analysis, design theory, historical research, rendering skills, fabric selections. Offered alternate years.

**THA 336 LIGHTING TECHNIQUES**  
3, 3/0

Prerequisite: THA 234 or Instructor Permission. Introduction to lighting design for theater, dance, studio, and industrial applications; principles of optical systems, stage lighting equipment, color media, electricity, control systems, stage lighting, history, and the McCandless stage lighting system; assigned practical experience required. Offered alternate years.

**THA 337 SET DESIGN I**  
3, 3/0

Prerequisite: THA 234 or Instructor Permission. Introduction to theatrical set design: basic design components of line, form, mass, composition, balance, color, and texture as they relate to set design; script analysis, research, color theory, drafting techniques, and mechanical perspective drawing. Offered alternate years.

**THA 338 DIGITAL DESIGN MEDIA FOR THEATER**  
3, 3/0

Prerequisites: Instructor Permission. Introduction to fundamental skills in area current area-specific software programs for the realization and presentation of theatrical designs. Offered alternate years.



**THA 339 SOUND DESIGN FOR THEATER**

3, 3/0

Prerequisite: THA 234 or Instructor Permission. Sound Design and use of sound technology for Theater and live performance. Students will explore the aesthetics, dynamics and technology needed to create effective sound environments for the stage. Attendance at live performances augments course content and is a course requirement. Offered occasionally.

**THA 340 PLAYWRITING**

3, 3/0

Prerequisite: THA 316 or TFA 301 or ENG 305 or Instructor Permission. Students will use research, script analysis and writing skills to develop and refine the script for a stage or screenplay. Offered as required.

Equivalent Course: ENG 340

**THA 345 STAGE COMBAT II**

3, 2/2

Prerequisite: THA 245 Stage Combat I or Instructor Permission. The study of weapon specific stage combat techniques, performing choreographed fight scenes with the single weapon. This is the second of three courses required for Society of American Fight Directors Actor/Combatant certification. Offered as required.

**THA 346 STAGE COMBAT III**

3, 2/2

Prerequisite: THA 345 Stage Combat II or Instructor Permission. Multiple weapon Stage Combat techniques with an emphasis on choreography and application for stage and screen. This is the Third of three courses required for Society of American Fight Directors Actor/Combatant certification. Offered as required.

**THA 348 VOICE ACTING FOR ANIMATION AND VIDEO GAMES**

3, 2/2

Prerequisites: THA 200 and THA 226. A studio class focusing on voice acting, developing vocal quality and characterization for a variety of genre and media. Offered as required.

**THA 350 DIRECTING I**

3, 3/0; CT14, WIIF

Prerequisites: TFA 301 or THA 316 and THA 226 or THA 234. Examination of the theater director's craft and responsibilities through lecture and hands-on projects. Offered spring only.

**THA 359 MUSICAL THEATER I**

3, 2/2

Prerequisites: THA 226 and DAN 214 and MUS 123; or by audition. An introduction to integrating the necessary singing, dancing and acting skills to meet the requirements of performing in the musical theater. Offered as required.

**THA 370 STAGE MAKEUP**

3, 3/0

Prerequisite: THA 234 or Instructor Permission. Principles and techniques of theatrical makeup application and design. Offered as required.

**THA 389 TOPIC COURSE**

3, 0/0

Intermediate to advanced course in Theater Arts. Focus and instructional method will vary. Offered occasionally.

**THA 400 VOICE AND MOVEMENT III**

3, 2/2

Prerequisite: THA 300. Advanced study of physical, vocal and phonetic skills as they apply to stage and screen. Offered alternate spring semesters.

**THA 416 SEMINAR IN THEATER ARTS**

1, 1/0

Prerequisite: Senior status. Development of skills including defining professional and personal goals, sharpening of critical capacities, and creating and sharing a portfolio or audition presentation. Offered fall only.

**THA 418 CREATIVE DRAMATICS**

3, 3/0

Prerequisite: Instructor Permission. History, philosophy, methods, and materials of informal playmaking with children; observation and participation. Offered as required.

**THA 421 DRAMA FROM THE AFRICAN AMERICAN PERSPECTIVE**

3, 3/0; DI14

Prerequisites: CWP 102 or equivalent. An exploratory and critical analysis of African-American playwrights (and playwrights of African descent) and their works. Students will participate in play readings and discussions related to the plays' social and historical context. Offered biennially.

Equivalent Course: AAS 421

**THA 426 ACTING IV: ON CAMERA**

3, 2/2

Prerequisite: THA 227. Advanced study in acting styles concentrating on acting for the camera. Offered alternate fall only.

**THA 435 COSTUME DESIGN II**

3, 3/0

Prerequisite: THA 335 or permission of instructor. Advanced studies in costume design and rendering techniques; drawing skills necessary. Design and construction project for performing arts production required. Offered occasionally.

**THA 437 SET DESIGN II**

3, 3/0

Prerequisites: DES 318/THA 337 or permission of instructor. Continuation of DES 318/THA 337. Intensive exploration of advanced set-design techniques; continued development of set design skills, with concentration on different performance venues, model building techniques, portfolio-quality work, and presentation styles; advanced scenic considerations with the limits of budget, stage space, and technical support. Offered occasionally.

**THA 450 DIRECTING II**

3, 2/2

Prerequisite: THA 350. Practical application of directing theory and technique through class scenes and the public performance of a one-act play. Offered as required.

**THA 459 MUSICAL THEATER II**

3, 2/2

Prerequisites: THA 359. An advanced studio class that focuses on performing in different musical styles and developing audition technique. Offered annually.

**THA 470 ENSEMBLE THEATER**

1-3, 2/2

Prerequisite: Instructor Permission. Examination of ensemble theatrical production through preparation and performance of plays. Offered Every Semester.

## THA 488 INTERNSHIP

1-12, 0/0

Prerequisites: Upper-division status and permission of instructor. Supervised field experience in a professional setting for students who have completed extensive academic preparation in the discipline; 50 hours of fieldwork in theater per credit. Offered Every Semester.

## THA 495 SPECIAL PROJECT

1-3, 0/0

Individual, student driven, project related to Theater Arts. Offered Every Semester.

## THA 497 WORKSHOP

3, 0/0

Intensive discussion and activity on a particular subject or project in Theater Arts.

## THA 499 INDEPENDENT STUDY

3-12, 0/0

Individual area of study, student works independently with faculty mentorship. Offered Every Semester.

# University College-BSC (BSC)

## BSC 100 THE COLLEGE TRANSITION PROCESS

1, 0/0

Prerequisite: Instructor permission. This course will focus on improving students' likelihood for college completion by assisting students in their transition into higher education while establishing strategies that will guide them on their road to success. Offered occasionally.

## BSC 101 FOUNDATIONS OF INQUIRY

3, 3/0

Introduction to the Intellectual Foundations program and liberal arts education. Focused on critical and creative thinking, and research skills applied to interdisciplinary topics. Identification, analysis, and evaluation of arguments' elements, form, strength, and validity. Emphasis on critical reading, argument construction, intellectual curiosity, fair-mindedness, and exploration of beliefs and values.

Equivalent Course: HON 100

## BSC 189 TOPIC COURSE

1, 0/0

BSC 189

## BSC 389 TOPIC COURSE

1, 0/0

BSC 389

# University College-UNC (UNC)

## UNC 100 MASTERING THE ACADEMIC ENVIRONMENT

3, 3/0

Prerequisites: First Year Status. This course supports the academic performance, social development, and persistence of first-year students at Buffalo State. The seminar engages students in meaningful inquiry and activities that develop core cognitive skills such as critical thinking within an academic discipline and develop students' skills that will increase academic success. Offered each semester.

Equivalent Course: INS 207

## UNC 101 LEARNING COMMUNITY INTEGRATED HOUR

1, 1/0

Integral aspect of each learning community; provides students the framework to see connections among seemingly disparate courses and to make connections across disciplines. Faculty and students explore the theme of the learning community, integrate course material, and relate both to their lives outside of the classroom.

Equivalent Course: INS 101

## UNC 111 CAREER PLANNING IN THEORY AND PRACTICE

1, 1/0

Multiple theories of career decision making processes. Includes lecture, discussion, and small-group activities. Students construct long-and short-term goals to assist them in the career-planning process.

## UNC 120 ENGLISH ESSENTIALS: COLLEGE READING SKILLS

1-3, 1/0

Competency-based course designed to emphasize advanced grammar structures, the development of written fluency, improvement of comprehension and vocabulary building. The course will include developing and improving reading and writing strategies through exercises, journal writing, small and large group activities, and formal and informal presentations. Offered each semester.

Equivalent Course: INS 120

## UNC 150 ENGLISH ESSENTIALS ii: THE READING AND WRITING CONNECTION

3, 3/0

Introduces students to both descriptive and prescriptive approaches to the grammar of English language and basic writing skills and techniques. Strategies for mastering rules of grammar and practical communication. Offered each semester.

## UNC 189 TOPIC COURSE

9, 0/0

TOPIC COURSE

## UNC 201 FOUNDATIONS OF LEADERSHIP

3, 3/0

UNC 201

Equivalent Courses: BUS 201, CRS 201

**UNC 215 PEER EDUCATION AND LEADERSHIP**  
3, 2/1

Prerequisites: students with 30 credits and above. Explores wellness topics and proactive prevention messages specific to the college population. Provides opportunities for professional development, leadership, communication skill building, and offers optional certification in health-related services: CPR, first aid, QPR, peer education, and Narcan. Offered each semester.

**UNC 301 TRANSFER SUCCESS SEMINAR**  
1, 1/0

This course is an in-depth introduction to Buffalo State College to assist transfer students in their adjustment to the college and to learn strategies for academic and personal success while discovering how to navigate their undergraduate experience around their unique academic, career, and personal goals. Offered every semester.

## Women and Gender Studies (WGS)

**WGS 101 INTRODUCTION TO WOMEN AND GENDER STUDIES**

3, 3/0; DI14

Gender as a social construction that influences women and men and intersects with other social categories. Introduction to feminist theories. How gender affects childhood experiences, education, employment, family, bodies, and violence.

Portrayal of gender in art, literature, and media. Gender in the social and natural sciences. Current issues related to women and gender. Offered Every Semester.

**WGS 189 TOPIC COURSE**

1-3, 0/0

Current topics in women and gender studies. Offered occasionally.

**WGS 201 INTRODUCTION TO LGBTQAI2+ STUDIES**

3, 3/0; DI14

Interdisciplinary introduction to lesbian, bisexual, gay, transgender, queer, asexual, intersex, 2-spirited, + studies. Develop an understanding of social, cultural, and historical constructions of and intersections between these identities and communities. Explore these concepts through film, television, literature, history, ethnography, archival materials, law, medicine, education, religion, psychology and sociology. Offered every spring.

**WGS 212 FEMINIST THEORY**

3, 3/0

Background in feminist social theory and changes in feminism over time. Introduction to theoretical analysis from a feminist perspective. Offered Every Semester.

Equivalent Course: SOC 212

**WGS 326 BLACK FEMINIST THOUGHT**

3, 3/0

This course provides an introduction to Black feminist thought from the 19th century through the present. Topics include the origins and development of intersectional thinking, intersectionality in contemporary social thought, and critical race theory. The course draws from multiple academic disciplines, public intellectualism, and activist work. Offered occasionally.

Equivalent Courses: AAS 326, SOC 326

**WGS 389 TOPIC COURSE**

3, 0/0

Current advanced topics in women and gender studies. Offered occasionally.

**WGS 488 INTERNSHIP**

1-12, 3/0

Prerequisite: Approval of the faculty supervisor. Supervised field experience in a variety of settings to supplement classroom instruction. Offered Every Semester.

**WGS 495 SPECIAL PROJECT**

1-3, 0/0

Prerequisite: Faculty supervisor permission. Research conducted under the supervision of a faculty member. Offered Every Semester.

**WGS 499 INDEPENDENT STUDY**

3-12, 0/0

Prerequisite: Faculty adviser permission. Offered Every Semester.

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Nicole L. Hunter, PHD, *SUNY At Buffalo*, Assistant Professor (2016)

Tae-Hee Jo, PHD, *University Of Missouri-Kansas City*, Associate Professor (2007)

Joelle J. Leclaire, PHD, *University Of Missouri-Kansas City*, Associate Professor (2004)

Xingwang Qian, PHD, *University Of California-Santa Cruz*, Professor (2008)

Ted P. Schmidt, PHD, *University Of California-Riverside*, Professor (1990)

John L. Wilcox, PHD, *Capella University*, Lecturer (2005)

## Elementary Education, Literacy, and Educational Leadership

Julie J. Henry, PHD, *SUNY At Buffalo*, Chair and Professor (1998)

Rosemary Arioli, MS, *SUNY College At Brockport*, Lecturer (1999)

Elizabeth W. Bair, MS, *SUNY College At Buffalo*, Lecturer (2019)

Pixita M. Del Prado Hill, EDD, *Harvard University*, Professor (1999)

Crystal A. Elias, MA, *SUNY College At Buffalo*, Lecturer (2020)

Selenid M. Frey, PHD, *CUNY Graduate School And University C*, Visiting Scholar (2020)

Keli A. Garas-York, PHD, *SUNY At Buffalo*, Professor (2006)

Patricia D. George, MED, *SUNY At Buffalo*, Lecturer (2013)

David R. Henry, PHD, *SUNY At Buffalo*, Associate Professor (1999), Chancellor's Award for Excellence in Faculty Service (May 2014)

Corinne M. Kindzierski, PHD, *SUNY At Buffalo*, Assistant Professor (2016)

Mary K. Lavin, MS, *SUNY College At Buffalo*, Lecturer (2021)

Peter W. Loehr, PHD, *Kent State University-Main Campus*, Associate Professor (1996)

Diana M. Maskell, MS, *Canisius College*, Lecturer (2018)

Dianne S. McCarthy, EDD, *SUNY At Buffalo*, Associate Professor (2005)

Wendy McLeish, MSED, *Wheelock College*, Lecturer (2001)

Nanci M. Monaco, PHD, *SUNY At Buffalo*, Associate Professor (2000)

Jennifer M. Reichenberg, PHD, *SUNY At Buffalo*, Assistant Professor (2020)

Susanna T. Schenk, MSED, *Saint Bonaventure University*, Lecturer (2018)

Hibajene Shandomo, PHD, *Andrews University*, Associate Professor (2000)

Christopher T. Shively, PHD, *SUNY At Buffalo*, Associate Professor (2001)

Sherri M. Weber, PHD, *Capella University*, Associate Professor (2011)

Jing Zhang, PHD, *University of Toronto*, Associate Professor (2010)

## Engineering Technology Department

Mohan S. Devgun, PHD, *University of Birmingham*, Chair and Professor (1990)

Sauqib M. Ahmed, PHD, *Rutgers The State University Central*, Assistant Professor (2018)

D. Steven Barker, PHD, *University Of Wyoming*, Associate Professor (1995)

Jikai Du, PHD, *Pennsylvania State University-Main Ca*, Associate Professor (2016)

John J. Earshen, PHD, *SUNY At Buffalo*, Associate Professor (1980)

Stephanie R. Goldberg, PHD, *SUNY At Buffalo*, Professor (1990)

Ilya Y. Grinberg, PHD, *Moscow State University of Civil Engi*, Professor (1995), Chancellor's Award for Excellence in Scholarship and Creative Activities (May 2016)

Elizabeth A. O'Neill, MA, *SUNY College At Buffalo*, Assistant Professor (2016)

Edward M. Purizhansky, PHD, *Belarussian Polytechnical Institute*, Lecturer (2013)

Richard A. Stempniak, PHD, *SUNY At Buffalo*, Associate Professor (1974)

## English Department

Lisa Berglund, PHD, *University Of Virginia-Main Campus*, Chair and Professor (2001), Chancellor's Award for Excellence in Faculty Service (May 2013)

Barish Ali, PHD, *SUNY At Buffalo*, Associate Professor (2006)

David N. Ben-Merre, PHD, *Brown University*, Professor (2008)

Timothy J. Bryant, PHD, *SUNY At Buffalo*, Associate Professor (2011)

James E. Cercone, PHD, *SUNY At Buffalo*, Assoc Professor+ English Ed Coor (2011)

Kim K. Chinquee, MFA, *University Of Illinois At Urbana-Cham*, Associate Professor (2008)

Mark K. Fulk, PHD, *Miami University-Oxford*, Associate Professor (2001)

Margaret M. Herb, PHD, *Indiana University Of Pennsylvania-Ma*, Assistant Professor (2016)

Hilary A. Lochte, PHD, *SUNY At Buffalo*, Assistant Professor (2019)

Katherine J. Macro, PHD, *SUNY At Buffalo*, Lecturer (2014)

Michele Ninacs, PHD, *Indiana University Of Pennsylvania-Ma*, Associate Professor (2001)

Kristen A. Pastore-Capuana, PHD, *SUNY At Buffalo*, Assistant Professor (2016)

Lorna L. Perez, PHD, *SUNY At Buffalo*, Associate Professor (2008)

Peter J. Ramos, PHD, *SUNY At Buffalo*, Associate Professor (2005)

Jennifer D. Ryan-Bryant, PHD, *University Of Iowa*, Professor (2005)

Macy P. Todd, PHD, *SUNY At Buffalo*, Assistant Professor (2016)

Aimable Twagilimana, PHD, *SUNY At Buffalo*, Professor (1995)

## Exceptional Education Department

Lawrence J. Maheady, PHD, *University Of Pittsburgh-Main Campus*, Dist Prof + H Mann Endowed Chair (2013)

Raquel J. Schmidt, PHD, *SUNY At Buffalo*, Chair and Associate Professor (2001)

Shannon E. Budin, PHD, *Pennsylvania State University-Main Ca*, Professor (2005)

Gliset Colon, PHD, *SUNY At Buffalo*, Assistant Professor (2016)

Dane M. DiCesare, PHD, *SUNY At Buffalo*, Lecturer (2015)

Kathy R. Doody, PHD, *SUNY At Buffalo*, Associate Professor (2004)

Judith A. Harris, MA, *SUNY College At Buffalo*, Lecturer (2011)

Andrew I. Hashey, PHD, *SUNY At Buffalo*, Assistant Professor (2018)

Theresa M. Janczak, PHD, *SUNY At Buffalo*, Associate Professor (2005)

Lauren J. Mirabella-Ormsby, PHD, *SUNY At Buffalo*, Lecturer (2009)

Angela L. Patti, PHD, *SUNY At Buffalo*, Associate Professor (2012)



Mark P. Posluszny, EDD, *University Of Kentucky*, Associate Professor (1985)

Lisa A. Rafferty, PHD, *SUNY At Buffalo*, Professor (2007), Chancellor's Award for Excellence in Teaching (May 2015)

Sharon L. Raimondi, PHD, *American University*, Professor (1986)

Awilda Ramos Zagarrigo, PHD, *SUNY At Buffalo*, Associate Professor (2008)

Krista M. Vince Garland, PHD, *University Of Central Florida*, Associate Professor (2012)

## Fashion and Textile Technology

KeunYoung Oh, PHD, *Iowa State University*, Chair and Associate Professor (2008)

Liza K. Abraham, PHD, *Iowa State University*, Assistant Professor (1997)

Emine Ercan, PHD, *Ege University*, Associate Professor (2006)

Erin C. Habes, MS, *SUNY College At Buffalo*, Lecturer (2007)

Margaret S. Keef, MSED, *SUNY College At Buffalo*, Lecturer (2013)

Ji Young Lee, PHD, *University Of Minnesota-Twin Cities*, Assistant Professor (2019)

Shantell M. Reid, BA, *SUNY At Buffalo*, Lecturer (2019)

Arlesa J. Shephard, PHD, *University Of Missouri-Columbia*, Associate Professor (2012)

## Geography and Planning Department

Camille A. Holmgren, PHD, *University Of Arizona*, Chair and Professor (2007)

Jason Knight, PHD, *SUNY At Buffalo*, Associate Professor (2011)

Wende A. Mix, PHD, *SUNY At Buffalo*, Associate Professor (2004)

Tao Tang, PHD, *University Of Wisconsin-Milwaukee*, Professor (1998)

Vida Vanchan, PHD, *SUNY At Buffalo*, Professor (2006)

Stephen J. Vermette, PHD, *McMaster University*, Professor (1993)

## Great Lakes Center

Alexander Y. Karatayev, PHD, *Belarusian State University*, Director (2007)

## Health, Nutrition, and Dietetics

Carol A. DeNysschen, PHD, *SUNY At Buffalo*, Chair and Professor (2008)

Catherine E. Cardina, PHD, *Ohio State University-Main Campus*, Associate Professor (2015)

Tina M. Colaizzo-Anas, PHD, *SUNY At Buffalo*, Associate Professor (1997)

Elizabeth A. Hartz, MS, *SUNY College At Buffalo*, Lecturer (2016)

Katherine B. Manis, MS, *SUNY At Buffalo*, Lecturer (2015)

Suk Y. Oh, PHD, *Colorado State University*, Professor (1995)

Leah M. Panek-Shirley, PHD, *SUNY At Buffalo*, Assistant Professor (2016)

## Higher Education Administration

Amy B. Wilson, PHD, *SUNY At Buffalo*, Chair and Associate Professor (2012)

Hermen Diaz III, PHD, *Colorado State University*, Assistant Professor (2019)

Kimberly A. Kline, PHD, *Indiana University-Bloomington*, Professor (2007)

## History and Social Studies Education

Andrew D. Nicholls, PHD, *University of Guelph*, Chair and Professor (1996)

John D. Abromeit, PHD, *University Of California-Berkeley*, Professor (2009)

Daniel M. Blum, MA, *SUNY College At Buffalo*, Lecturer (2002)

David A. Carson, PHD, *Texas Christian University*, Distinguished Service Professor (1983), Chancellor's Award for Excellence in Teaching (May 1999)

Bridget Maria Chesterton, PHD, *SUNY At Stony Brook*, Professor (2007), Chancellor's Award for Excellence in Scholarship and Creative Activities (May 2016)

Martin F. Ederer, PHD, *SUNY At Buffalo*, Associate Professor (1998)

Jill M. Gradwell, PHD, *SUNY At Buffalo*, Professor (2004)

Kenneth S. Mernitz, PHD, *University Of Missouri-Columbia*, Associate Professor (1985)

York A. Norman, PHD, *Georgetown University*, Professor (2007)

Kenneth J. Orosz, PHD, *SUNY At Binghamton*, Professor (2008)

Steve Peraza, PHD, *SUNY At Buffalo*, Assistant Professor (2014)

Dana F. Serure, EDD, *SUNY At Buffalo*, Assistant Professor (2018)

## Hospitality and Tourism Department

Kathleen M. O'Brien, MED, *SUNY At Buffalo*, Chair and Lecturer (1989)

Stephen C. Burgeson, MED, *SUNY At Buffalo*, Lecturer (1996)

Jeffrey S. Hirschfeld, MS, *SUNY College At Buffalo*, Campus House Director (2015)

Donald A. Schmitter, MSED, *SUNY College At Buffalo*, Lecturer (2002)

Rebecca Tate, MSED, *Niagara University*, Lecturer (2002)

Lori L. Till, EDD, *SUNY At Buffalo*, Associate Professor (1985)

## Mathematics Department

Jane R. Cushman, PHD, *The University Of Texas At Austin*, Chair and Associate Professor (2006)

Saziye Bayram, PHD, *SUNY At Buffalo*, Associate Professor (2006)

Valentin E. Brimkov, PHD, *Sofia University*, Professor (2005), Chancellor's Award for Excellence in Scholarship and Creative Activities (May 2012)

Joaquin O. Carbonara, PHD, *University Of California-San Diego*, Professor (1992)

Emily R. Fagerstrom, MS., Lecturer (2016)

Chaitali Ghosh, PHD, *SUNY At Buffalo*, Associate Professor (2000)

Jodelle SW Magner, PHD, *University Of Maryland-College Park*, Associate Professor (2000)

Susan E. McMillen, PHD, *SUNY At Buffalo*, Professor (2000)

Peter R. Mercer, PHD, *University of Toronto*, Professor (1997)

Jeffrey C. Morton, PHD, *University Of California-Riverside*, Assistant Professor (2016)

Nirmala Nutakki, MED, *SUNY At Buffalo*, Lecturer (2009)

Robin Sue O'Dell, PHD, *SUNY At Buffalo*, Associate Professor (2007)

Robin Sue Sanders, PHD, *University Of Illinois At Urbana-Cham*, Associate Professor (1997)

Bruce Swan, PHD, *University Of Pittsburgh-Main Campus*, Associate Professor (2012)

David C. Wilson, PHD, *SUNY At Buffalo*, Associate Professor (2002)

Hongliang Xu, PHD, *SUNY At Buffalo*, Professor (2009)

## Modern and Classical Languages

Jill M. Norvilitis, PHD, *Wayne State University*, Interim Chair and Professor (1997), Chancellor's Award for Excellence in Teaching (May 2010)

Andrea Guiati, PHD, *Rutgers University-New Brunswick*, Distinguished Teaching Professor (1985), Chancellor's Award for Excellence in Teaching (May 1997)

Deborah L. Hovland, PHD, *University Of Minnesota-Twin Cities*, Associate Professor (1992)

Rafika Merini, PHD, *SUNY At Binghamton*, Associate Professor (1990)

Marko J. Miletich, PHD, *SUNY At Binghamton*, Assistant Professor (2020)

Graziela B. Rondon-Pari, PHD, *SUNY At Buffalo*, Assistant Professor (2018)

Mark K. Warford, PHD, *The University Of Tennessee*, Associate Professor (2000)

## Music Department

Victoria J. Furby, PHD, *Ohio State University-Main Campus*, Chair and Associate Professor (2008)

Ho Eui H. Bewlay, DMA, *University Of Rochester*, Associate Professor (2005)

Emily W. Boyce, DMA, *University Of Rochester*, Associate Professor (2003)

Mark H. Filsinger, DMA, *University Of Rochester*, Associate Professor (2012)

Ricky L. Fleming, PHD, *Florida State University*, Professor (2001)

Carolyn Guzski, PHD, *CUNY Graduate School And University C*, Associate Professor (2009)

Jose T. Henriques, PHD, *SUNY At Buffalo*, Professor (2009)

Kerry B. Renzoni, PHD, *Temple University*, Associate Professor (2012)

Thilo Schaller, MA, *Universiteit Utrecht*, Assistant Professor (2017)

Thomas E. Witakowski, DMA, *Indiana University-Bloomington*, Associate Professor (1992)

## Philosophy Department

Jason D. Grinnell, PHD, *Bowling Green State University-Main C*, Chair and Associate Professor (2007)

Kimberly A. Blessing, PHD, *SUNY At Buffalo*, Professor (2004)

John D. Draeger, PHD, *Syracuse University*, Prof + Dir, Tchng + Lng Ctr (2005)

Leigh K. Duffy, PHD, *SUNY At Buffalo*, Assistant Professor (2009), Chancellor's Award for Excellence in Adjunct Teaching (Feb 2014)

John R. Torrey, MA, *University Of Memphis*, Assistant Professor (2018)

## Physics Department

Dermot Coffey, PHD, *University Of Illinois At Urbana-Cham*, Chair and Professor (2002)

David J. Ettestad, PHD, *Cornell University*, Professor (1986)

Dan L. MacIsaac, PHD, *Purdue University-Main Campus*, Professor (2002)

Arjun K. Pathak, PHD, *Southern Illinois University Carbonda*, Assistant Professor (2019)

Ram C. Rai, PHD, *University Of Kentucky*, Professor (2007)

## Political Science and Public Administration

Atta A. Ceesay, PHD, *Rutgers University-Newark*, Chair and Associate Professor (2015)

Laurie A. Buonanno, PHD, *Johns Hopkins University*, Professor (2006)

Patrick J. McGovern, PHD, *University Of Arizona*, Associate Professor (2006)

Anthony Neal, PHD, *Clark Atlanta University*, Associate Professor (1988)

Jason D. Rivera, PHD, *Rutgers University-Camden*, Associate Professor (2015)

Mehwish Sarwari, PHD, *SUNY At Buffalo*, Assistant Professor (2014)

Adamu K. Shauku, PHD, *The University Of Alabama*, Assistant Professor (2018)

Suparna Soni, PHD, *SUNY At Buffalo*, Associate Professor (2014)

Peter R. Yacobucci, PHD, *University Of Arizona*, Associate Professor (2010)

## Psychology Department

Dwight A. Hennessy, PHD, *York University*, Chair and Professor (2000)

Kimberly E. K. DeMarco, PHD, *SUNY At Buffalo*, Assistant Professor (2018)

Robert P. Delprino, PHD, *Old Dominion University*, Professor (1992)

Jean M. DiPirro, PHD, *SUNY At Buffalo*, Associate Professor (1999)

Stephani M. Foraker, PHD, *New York University*, Associate Professor (2008)

Jurgis Karuza Jr., PHD, *Wayne State University*, Professor (1978)

Michael G. MacLean, PHD, *Arizona State University At The Tempe*, Associate Professor (1997)

Naomi J. McKay, PHD, *SUNY At Buffalo*, Assistant Professor (2016)

Karen O'Quin, PHD, *Michigan State University*, Professor (1982)

Howard M. Reid, PHD, *University Of Maine*, Professor (1977), Chancellor's Award for Excellence in Teaching (May 1988), Chancellor's Award for Excellence in Faculty Service (May 2005)

Pamela Schuetze-Pizarro, PHD, *Virginia Polytechnic Institute And St*, Professor (1996), Chancellor's Award for Excellence in Scholarship and Creative Activities (May 2013)

## School of Education

Jevon D. Hunter, PHD, *University Of California-Los Angeles*, Woods-Beals Endowed Chair (2010)

Sandra D. Washington-Copeland, PHD, *SUNY At Buffalo*, Teacher Diversity Pipeline Advsr (2019)

## Social & Psychological Foundations

Andrea B. Nikischer, PHD, *SUNY At Buffalo*, Interim Chair + Associate Profes (2008)

Julie H. Carter, PHD, *SUNY At Buffalo*, Lecturer (2019)

Reva M. Fish, PHD, *SUNY At Buffalo*, Associate Professor (2008)

Douglas L. Hoston Jr., BPSYCH, *Cleveland State University*, Visiting Scholar (2019)

P. Rudy Mattai, PHD, *University Of Pittsburgh-Main Campus*, Professor (1990)

Nyandusi A. Nyachae, MA, *SUNY College At Buffalo*, Lecturer (2018)

Gehan Senthinathan, PHD, *Wilfrid Laurier University*,  
Assistant Professor (2019)

## Social Work Department

Catherine M. Mazzotta, PHD, *SUNY At Buffalo*, Chair and  
Associate Professor (2015)

Mark T. Boser, MSW, *SUNY At Buffalo*, Lecturer (2014)

Jessica M. Fitzpatrick, PHD, *SUNY At Buffalo*, Associate  
Professor (2017)

James C. Golden, PHD, *SUNY At Albany*, Assistant Professor  
(2019)

Amy R. Manning, PHD, *SUNY At Buffalo*, Assistant Professor  
(2020)

Berg K. Miller, PHD, *SUNY At Buffalo*, Assistant Professor  
(2020)

Tonya D. Myles-Day, MSW, *SUNY At Buffalo*, Lecturer  
(2016)

Kimberley M. Zittel-Barr, PHD, *SUNY At Buffalo*, Associate  
Professor (2005)

## Sociology Department

Ron Stewart, PHD, *Howard University*, Chair and Professor  
(1990)

Joseph P. Cleary, PHD, *Louisiana State University-Health Sci*,  
Assistant Professor (2019)

Cameron T. Herman, PHD, *Michigan State University*,  
Assistant Professor (2019)

Luke J. Krieg, PHD, *Northeastern University*, Professor  
(1997)

Staci Newmahr, PHD, *SUNY At Stony Brook*, Associate  
Professor (2008)

Allen C. Shelton, PHD, *University Of Georgia*, Professor  
(1998)

Thomas S. Weinberg, PHD, *University Of Connecticut*,  
Professor (1969), Chancellor's Award for Excellence in  
Teaching (September 1973)

Jie Zhang, PHD, *Brigham Young University*, Distinguished  
Professor (1997), Chancellor's Award for Excellence  
in Faculty Service (May 2005), Chancellor's Award for  
Excellence in Scholarship and Creative Activities (May  
2013)

## Speech-Language Pathology

Susan Felsenfeld, PHD, *University Of Minnesota-Twin Cities*,  
Chair and Associate Professor (2016)

Amy J. Crockford, MED, *SUNY At Buffalo*, Lecturer (2011)

Katrina R. Fulcher, PHD, *SUNY At Buffalo*, Associate  
Professor (2016)

Deborah M. Insalaco, PHD, *University Of Arizona*, Associate  
Professor (1999)

Camilo Maldonado III, PHD, *SUNY At Buffalo*, Associate  
Professor (2005)

Kathleen M. Mc Nerney, PHD, *SUNY At Buffalo*, Associate  
Professor (2015)

Dona A. Senthinathan, PHD, *University of Western Ontario*,  
Assistant Professor (2019)

## Theater Department

Ann R. Emo, MFA, *New York University*, Chair and Professor  
(2006)

Naila H. Ansari, BA, *Point Park University*, Assistant  
Professor (2016)

Carol Y. Beckley, MFA, *Southern Methodist University*,  
Associate Professor (1994)

Michael J. Lambert, BA, *SUNY At Buffalo*, Lecturer (2011)

Nicholas W. Quinn, MFA, *Ohio State University-Main  
Campus*, Lecturer (2015)

Jonathan L. Seinen, MFA, *Columbia University*, Assistant  
Professor (2020)

Jennifer J. Toohey, MFA, *Florida Atlantic University*,  
Associate Professor (2013)

## Writing Program

Mary E. Sullivan, MA, *New Mexico State University-Main  
Camp*, Lecturer (2012)

Natalie A. Szymanski, PHD, *Florida State University*,  
Director (2019)

Lori Ann S. Woods, PHD, *Indiana University Of  
Pennsylvania-Ma*, Lecturer (2011)

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