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### Undergraduate Catalog

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**Pioneer Core**[The Pioneer Core Program](#)

Cross-Cultural Component

Distribution Component

GE1 and GE2 Courses

Cross Cultural Experiences

CCD Courses

Organization of Majors in

Distribution Areas

## The Pioneer Core Program

### The Pioneer Core Program

The Pioneer Core is Carroll's general education curriculum. Pioneer Core expands student learning beyond the major area of study, providing not only depth and breadth, but also a series of cross-cultural learning opportunities. The knowledge and skills developed through Pioneer Core are essential for students to reach their full potential as educated citizens in diverse communities and in an ever-changing work force. Upon completion of Carroll's Pioneer Core, students will achieve the following learning outcomes:

1. Understand world cultures and reflectively interact with cultures other than their own.
2. Critically evaluate global issues from multiple perspectives.
3. Understand and analyze multiple philosophical, ethical, and religious positions held by persons within their own and other cultures.
4. Understand the methodologies germane to the fine arts, humanities, social sciences, and natural sciences as well as their larger social context.
5. Analyze and integrate material in a field outside the major area of study.
6. Develop and defend a position that demonstrates logical reasoning both orally and in writing.
7. Demonstrate information fluency by gathering, analyzing, and synthesizing information using emerging technologies and traditional media.

Students accomplish these learning outcomes through a Cross-Cultural Component and a Distribution Component.

**Pioneer Core**

The Pioneer Core Program

[Cross-Cultural Component](#)

Distribution Component

GE1 and GE2 Courses

Cross Cultural Experiences

CCD Courses

Organization of Majors in  
Distribution Areas**Cross-Cultural Component****The Cross-Cultural Component is a five-course series through which students explore the study of culture:**

- Cultural Seminar
- Writing Seminar
- Cross-Cultural Development
- Cross-Cultural Experience
- Global Perspectives Colloquium

**Cultural Seminar (CCS 100)**

The Cultural Seminar, which is taken in the first semester, begins the exploration of culture through the study of one's own culture and a different culture. This course develops oral and written communication skills through critical reading, discussion, and reflective writing.

**Writing Seminar (ENG 170)**

The Writing Seminar is taken during the first or second semester, includes cross-cultural readings, and develops foundational writing skills.

**Cross-Cultural Development (CCD)**

The Cross-Cultural Development course is taken after the Cultural and Writing Seminars. This course satisfies a Distribution requirement, continues development of writing skills, and includes significant cross-cultural themes as preparation for the Cross-Cultural Experience.

**Cross-Cultural Experience (CCE)**

The Cross-Cultural Experience course is taken concurrently or after the Cross-Cultural Development course. In an off-campus setting, students apply knowledge learned in the previous three courses through interactions with cultures other than their own.

**Global Perspectives Colloquium (CCS 400)**

In the Global Perspectives Colloquium, advanced students (usually seniors) from multiple disciplines engage in critical reading and discussion. Students reflect on their distribution courses and cross-cultural experiences while also refining their writing skills

**Pioneer Core**

The Pioneer Core Program

Cross-Cultural Component

[Distribution Component](#)

GE1 and GE2 Courses

Cross Cultural Experiences

CCD Courses

Organization of Majors in  
Distribution Areas**Distribution Component**

The Distribution Component of the Pio Core consists of courses that are outside a student's academic major area of study. The Distribution Component includes two main features: four introductory-level General Education 1 (GE1) courses that encourage disciplinary breadth and one higher-level General Education 2 (GE2) course that fosters depth outside the major. There are five Distribution Areas, and each academic major is housed in one of these areas: Fine Arts, Humanities, Philosophy/Ethics/Religion, Social Sciences, Natural Sciences.

*Please note: When a student changes his/her current major to a major in a different distribution area, it will be the responsibility of the student to ensure that all the requirements of the new distribution area are met.*

**GE1 courses**

Students must complete four GE1 courses: one from each of the four Distribution Areas outside of their major area of study. Students are not required to take a course from the Distribution Area in which their major is housed (e.g., a Chemistry major need not take a GE1 course from the Natural Sciences Distribution Area).

**GE2 courses**

A student must take one GE2 course. A GE2 course must be from the same discipline as one of the GE1 courses previously taken (e.g., a GE1 English course and a GE2 English course). A GE2 course builds upon knowledge from a previous GE1 course and provides depth in an area of interest outside a student's major. Some GE2 courses have a prerequisite. Students should consult the catalog descriptions for courses that interest them to determine whether this might be the case.

**Cross-Cultural Development**

Some GE1 and GE2 Distribution courses are also designated a Cross-Cultural Development (CCD). Students must take at least one CCD course. Students may satisfy the CCD requirement and a Distribution Area requirement in a single course.

A listing of GE1 and GE2 courses by Distribution Area follows. See also those that have a CCD after the course description – they satisfy the Cross-Cultural Development requirement. More courses, especially GE2 courses, will be added to this list.

**Pioneer Core**

The Pioneer Core Program

Cross-Cultural Component

Distribution Component

**GE1 and GE2 Courses**

- » Fine Arts General Education I (F1)
- » Humanities General Education 1 (H1)
- » Natural Sciences General Education 1 (N1)
- » Philosophy/Ethics/Religion General Education 1 (P1)
- » Social Sciences General Education 1 (S1)
- » Fine Arts General Education 2 (F2)
- » Humanities General Education 2 (H2)
- » Natural Sciences General Education 2 (N2)
- » Philosophy/Ethics/Religion General Education 2 (P2)
- » Social Sciences General Education 2 (S2)

Cross Cultural Experiences

CCD Courses

Organization of Majors in Distribution Areas

**GE1 and GE2 Courses****General Education (GE1) Courses****Fine Arts General Education I (F1)**

Through practice and study, students will learn about the creative process that is central to disciplines found within the Visual and Performing Arts.

**Humanities General Education I (H1)**

Students will examine literary and historical artifacts to understand diverse cultures and their development over time.

**Natural Sciences General Education I (N1)**

Students will learn theoretical and practical methods of the natural sciences and will apply these methods to problems through laboratory or field experiences.

**Philosophy/Ethics/Religion General Education I (P1)**

Students will analyze multiple philosophical, ethical, and religious positions relative to individual and social life and acquire means to enter conversations about ethics, values and meanings.

**Social Sciences General Education I (S1)**

Students will learn theoretical and methodological approaches to the study of societal dynamics, and use that knowledge to analyze contemporary social issues.

**General Education (GE2) Courses**

NOTE: A student must take one GE2 course. A GE2 course must be from the same discipline as one of the GE1 courses previously taken (e.g., a GE1 English course and a GE2 English course). A GE2 course builds upon knowledge from a previous GE1 course and provides depth in an area of interest outside a student's major. Some GE2 courses have a prerequisite. Students should consult the catalog descriptions for courses that interest them to determine whether this might be the case.

**Fine Arts General Education II (F2)**

Through practice and study, students will learn about the creative process that is central to disciplines found within the Visual and Performing Arts.

**Humanities General Education II (H2)**

Students will examine literary and historical artifacts to understand diverse cultures and their development over time.

**Natural Sciences General Education II (N2)**

Students will learn theoretical and practical methods of the natural sciences and will apply these methods to problems through laboratory or field experiences.

**Philosophy/Ethics/Religion General Education II (P2)**

Students will analyze multiple philosophical, ethical, and religious positions relative to individual and social life and acquire means to enter conversations about ethics, values and meanings.

**Social Sciences General Education II (S2)**

Students will learn theoretical and methodological approaches to the study of societal dynamics, and use that knowledge to analyze contemporary social issues.

**GE1 and GE2 Courses****Fine Arts General Education I (F1)**

- » ART103: Prehistoric to Renaissance- Art History Survey
- » ART104: Renaissance to Early Modernism- Art History Survey
- » ART106: Drawing and Composition
- » ART107: Beginning Design 2D and 3D
- » ART209: Photography I
- » ART225: Ceramics I
- » ENG206: Fiction Writing
- » ENG207: Poetry Writing
- » MUS151: History of Jazz
- » MUS156: Listening to Classical Music
- » MUS158: Rock Music - Roots and History
- » MUS159: Electronic Music
- » MUS185: Concert Choir
- » MUS188: Wind Symphony
- » THE101: Introduction to Theatre Arts
- » THE102: Oral Interpretation and Presentation
- » THE111: Introduction to World Dance

Humanities General Education 1 (H1)

Natural Sciences General Education 1 (N1)

Philosophy/Ethics/Religion General Education 1 (P1)

Social Sciences General Education 1 (S1)

Fine Arts General Education 2 (F2)

Humanities General Education 2 (H2)

Natural Sciences General Education 2 (N2)

Philosophy/Ethics/Religion General Education 2 (P2)

Social Sciences General Education 2 (S2)

**Fine Arts General Education I (F1)**

## Distribution Component

Through practice and study, students will learn about the creative process that is central to disciplines found within Visual and Performing Arts.

- ART103: Prehistoric to Renaissance- Art History Survey (4 hours)
- ART104: Renaissance to Early Modernism- Art History Survey (4 hours)
- ART106: Drawing and Composition (4 hours)
- ART107: Beginning Design 2D and 3D (4 hours)
- ART209: Photography I (4 hours)
- ART225: Ceramics I (4 hours)
- ENG206: Fiction Writing (4 hours)
- ENG207: Poetry Writing (4 hours)
- MUS151: History of Jazz (4 hours)
- MUS156: Listening to Classical Music (4 hours)
- MUS158: Rock Music - Roots and History (4 hours)
- MUS159: Electronic Music (4 hours)
- MUS185: Concert Choir (1 hours)
- MUS188: Wind Symphony (1 hours)
- THE101: Introduction to Theatre Arts (4 hours)
- THE102: Oral Interpretation and Presentation (4 hours)
- THE111: Introduction to World Dance (4 hours)

NOTE: MUS185 and MUS188 must be taken 4 times to equal 1 GE requirement.



**GE1 and GE2 Courses**

Fine Arts General Education I (F1)

**Humanities General Education 1 (H1)**

- » ENG162: Science Fiction and Gender
- » ENG164: American Indian Literature and Spirituality
- » ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class
- » ENG199: Reading and Writing in the Sciences
- » ENG210: African American Literature
- » ENG211: Intro Literary Study I - Poetry
- » ENG214: Global Film Theory and Criticism
- » ENG255: Postcolonial Literature and Theory
- » ENG255H: Postcolonial Literature and Theory
- » ENG288: Spectacle and Text: Visual Culture 1700 - 1920
- » FRE301: Conversation & Composition
- » GER301: Conversation & Composition
- » HIS103: Roots of the Western World
- » HIS104: Europe and the Modern World
- » HIS105: America to 1877
- » HIS106: America since 1877
- » HIS107: Understanding the Premodern World
- » HIS108: Understanding Our Contemporary World
- » HIS110: History of Modern China
- » HIS112: Intro to Latin America History
- » HIS224H: The World Since 1945
- » SPA301: Conversation and Composition I

Natural Sciences General Education 1 (N1)

Philosophy/Ethics/Religion General Education 1 (P1)

Social Sciences General Education 1 (S1)

Fine Arts General Education 2 (F2)

Humanities General Education 2 (H2)

Natural Sciences General Education 2 (N2)

Philosophy/Ethics/Religion General Education 2 (P2)

Social Sciences General Education 2 (S2)

**Humanities General Education 1 (H1)**

Distribution Component

- ENG162: Science Fiction and Gender (4 hours)
- ENG164: American Indian Literature and Spirituality (4 hours)
- ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class (4 hours)
- ENG199: Reading and Writing in the Sciences (4 hours)
- ENG210: African American Literature (4 hours)
- ENG211: Intro Literary Study I - Poetry (4 hours)
- ENG214: Global Film Theory and Criticism (4 hours)
- ENG255: Postcolonial Literature and Theory (4 hours)
- ENG255H: Postcolonial Literature and Theory (4 hours)
- ENG288: Spectacle and Text: Visual Culture 1700 - 1920 (4 hours)
- FRE301: Conversation & Composition (4 hours)
- GER301: Conversation & Composition (4 hours)
- HIS103: Roots of the Western World (4 hours)
- HIS104: Europe and the Modern World (4 hours)
- HIS105: America to 1877 (4 hours)
- HIS106: America since 1877 (4 hours)
- HIS107: Understanding the Premodern World (4 hours)
- HIS108: Understanding Our Contemporary World (4 hours)
- HIS110: History of Modern China (4 hours)
- HIS112: Intro to Latin America History (4 hours)
- HIS224H: The World Since 1945 (4 hours)
- SPA301: Conversation and Composition I (4 hours)

**GE1 and GE2 Courses**

Fine Arts General Education I (F1)

Humanities General Education 1 (H1)

**Natural Sciences General Education 1 (N1)**

- » BIO120: General Biology I
- » BIO131: Genetics in Family and Society
- » CHE101: General Chemistry
- » CHE104: Forensic Science
- » CHE106: Drug Discovery
- » CHE109: Principles of Chemistry I
- » ENV105: Earth Science
- » ENV120: Conservation and Environmental Improvement
- » ENV120H: Conservation and Environmental Improvement
- » ENV150: Climate Science
- » PHY105: Astronomy

Philosophy/Ethics/Religion General Education 1 (P1)

Social Sciences General Education 1 (S1)

Fine Arts General Education 2 (F2)

Humanities General Education 2 (H2)

Natural Sciences General Education 2 (N2)

Philosophy/Ethics/Religion General Education 2 (P2)

Social Sciences General Education 2 (S2)

**Natural Sciences General Education 1 (N1)**

Distribution Component

- BIO120: General Biology I (4 hours)
- BIO131: Genetics in Family and Society (4 hours)
- CHE101: General Chemistry (4 hours)
- CHE104: Forensic Science (4 hours)
- CHE106: Drug Discovery (4 hours)
- CHE109: Principles of Chemistry I (4 hours)
- ENV105: Earth Science (4 hours)
- ENV120: Conservation and Environmental Improvement (4 hours)
- ENV120H: Conservation and Environmental Improvement (4 hours)
- ENV150: Climate Science (4 hours)
- PHY105: Astronomy (4 hours)

**GE1 and GE2 Courses**

Fine Arts General Education I (F1)

Humanities General Education 1 (H1)

Natural Sciences General Education 1 (N1)

**Philosophy/Ethics/Religion General Education 1 (P1)**

- » PHI101: Introduction to Philosophy
- » PHI105: Introduction to Logic
- » PHI106: Ethics, Values and Judgment
- » PHI192: Environmental Ethics
- » PHI194: Bioethics
- » PHI207: History and Philosophy of Science
- » PHI213: Philosophy of Art
- » REL100: World Religions
- » REL102: Introduction to the Hebrew Bible
- » REL103: Intro to the New Testament
- » REL106: Understanding Religion
- » REL201: Jesus of Nazareth
- » REL202: Religious Traditions in America
- » REL210: Suffering and Hope
- » REL215: Women in Religion
- » REL220: Health and Religion
- » REL224: Religion and Literature
- » REL230: Foundations of Christianity
- » REL231: Christianity in the Modern World

Social Sciences General Education 1 (S1)

Fine Arts General Education 2 (F2)

Humanities General Education 2 (H2)

Natural Sciences General Education 2 (N2)

Philosophy/Ethics/Religion General Education 2 (P2)

Social Sciences General Education 2 (S2)

## Philosophy/Ethics/Religion General Education 1 (P1)

Distribution Component

- PHI101: Introduction to Philosophy (4 hours)
- PHI105: Introduction to Logic (4 hours)
- PHI106: Ethics, Values and Judgment (4 hours)
- PHI192: Environmental Ethics (4 hours)
- PHI194: Bioethics (4 hours)
- PHI207: History and Philosophy of Science (4 hours)
- PHI213: Philosophy of Art (4 hours)
- REL100: World Religions (4 hours)
- REL102: Introduction to the Hebrew Bible (4 hours)
- REL103: Intro to the New Testament (4 hours)
- REL106: Understanding Religion (4 hours)
- REL201: Jesus of Nazareth (4 hours)
- REL202: Religious Traditions in America (4 hours)
- REL210: Suffering and Hope (4 hours)
- REL215: Women in Religion (4 hours)
- REL220: Health and Religion (4 hours)
- REL224: Religion and Literature (4 hours)
- REL230: Foundations of Christianity (4 hours)
- REL231: Christianity in the Modern World (4 hours)

**GE1 and GE2 Courses**

Fine Arts General Education I (F1)

Humanities General Education 1 (H1)

Natural Sciences General Education 1 (N1)

Philosophy/Ethics/Religion General Education 1 (P1)

**Social Sciences General Education 1 (S1)**

- » COM101: Principles of Communication
- » COM207: Intercultural Communication
- » COM290: Intro to Health Communication
- » ECO124: Principles of Economics I - Microeconomics
- » ECO225: Principles of Economics II - Macroeconomics
- » PBH101: Introduction to Public Health
- » PBH102: Global Health
- » POL103: Politics of the World's Nations
- » POL141: Intro to American Politics
- » POL155: Contemporary Global Politics
- » POL210H: Origins of Democratic Thinking
- » POL275: Political Theory
- » POL276: Democracy, Globalization, and International Governance
- » PSY101: Introductory Psychology
- » SOC101: Introduction to Sociology
- » SOC102: Sociology of Social Problems
- » SOC110: Cultural Anthropology
- » SOC130: Culture and Crime

Fine Arts General Education 2 (F2)

Humanities General Education 2 (H2)

Natural Sciences General Education 2 (N2)

Philosophy/Ethics/Religion General Education 2 (P2)

Social Sciences General Education 2 (S2)

## Social Sciences General Education 1 (S1)

Distribution Component

- COM101: Principles of Communication (4 hours)
- COM207: Intercultural Communication (4 hours)
- COM290: Intro to Health Communication (4 hours)
- ECO124: Principles of Economics I - Microeconomics (4 hours)
- ECO225: Principles of Economics II - Macroeconomics (4 hours)
- PBH101: Introduction to Public Health (4 hours)
- PBH102: Global Health (4 hours)
- POL103: Politics of the World's Nations (4 hours)
- POL141: Intro to American Politics (4 hours)
- POL155: Contemporary Global Politics (4 hours)
- POL210H: Origins of Democratic Thinking (4 hours)
- POL275: Political Theory (4 hours)
- POL276: Democracy, Globalization, and International Governance (4 hours)
- PSY101: Introductory Psychology (4 hours)
- SOC101: Introduction to Sociology (4 hours)
- SOC102: Sociology of Social Problems (4 hours)
- SOC110: Cultural Anthropology (4 hours)
- SOC130: Culture and Crime (4 hours)

**GE1 and GE2 Courses**

Fine Arts General Education I (F1)

Humanities General Education 1 (H1)

Natural Sciences General Education 1 (N1)

Philosophy/Ethics/Religion General Education 1 (P1)

Social Sciences General Education 1 (S1)

**Fine Arts General Education 2 (F2)**

- » ART201: Painting I
- » ART212: Introduction to Book Art
- » ART215: History of Photography
- » ART220: Sculpture I
- » ART230: Printmaking I
- » ART258: Visual Communication
- » ART309: Photography II - Fine Art
- » ART310: Photography II - Commercial
- » ART314: Photography II Studio Lighting
- » ENG333: Advanced Creative Writing
- » MUS311: Music History I - Early Music through the Baroque Period
- » MUS312: Music History II - The Classic and Romantic Periods
- » THE215: Theatre History and Literature I
- » THE216: Theatre History and Literature II

Humanities General Education 2 (H2)

Natural Sciences General Education 2 (N2)

Philosophy/Ethics/Religion General Education 2 (P2)

Social Sciences General Education 2 (S2)

## Fine Arts General Education 2 (F2)

Distribution Component

NOTE: A student must take one GE2 course. A GE2 course must be from the same discipline as one of the GE1 courses previously taken (e.g., a GE1 English course and a GE2 English course). A GE2 course builds upon knowledge from a previous GE1 course and provides depth in an area of interest outside a student's major. Some GE2 courses have a prerequisite. Students should consult the catalog descriptions for courses that interest them to determine whether this might be the case.

- ART201: Painting I (4 hours)
- ART212: Introduction to Book Art (4 hours)
- ART215: History of Photography (4 hours)
- ART220: Sculpture I (4 hours)
- ART230: Printmaking I (4 hours)
- ART258: Visual Communication (4 hours)
- ART309: Photography II - Fine Art (4 hours)
- ART310: Photography II - Commercial (4 hours)
- ART314: Photography II Studio Lighting (4 hours)
- ENG333: Advanced Creative Writing (4 hours)
- MUS311: Music History I - Early Music through the Baroque Period (4 hours)
- MUS312: Music History II - The Classic and Romantic Periods (4 hours)
- THE215: Theatre History and Literature I (4 hours)
- THE216: Theatre History and Literature II (4 hours)

**GE1 and GE2 Courses**

Fine Arts General Education I (F1)

Humanities General Education 1 (H1)

Natural Sciences General Education 1 (N1)

Philosophy/Ethics/Religion General Education 1 (P1)

Social Sciences General Education 1 (S1)

Fine Arts General Education 2 (F2)

**Humanities General Education 2 (H2)**

- » ENG242: American Literature: One Nation, Many Voices
  - » ENG300: Great Authors
  - » ENG303: Milton and Moral Choice - His Age and Ours
  - » ENG304: Shakespeare: From Stage to Screen
  - » ENG305: Advanced Exposition and the Rhetorical Tradition
  - » ENG312: Modernism
  - » FRE307: French Civilization
  - » GER318: Topics in German Culture and Literature
  - » HIS210: Hist-American Foreign Relations
  - » HIS213: Women in American History
  - » HIS215: American Encounters: Natives, Africans, and Europeans in the Americans, 1350-1750
  - » HIS217: Renaissance and Reformation Europe
  - » HIS225H: Medieval Europe, China, and the Islamic Crescent
  - » HIS254: Topics in Medieval European History
  - » HIS257: Europe's Civil War: 1900-1950
  - » HIS301: The Forging of a Nation - The Colonial and Revolutionary Experience in North America
  - » HIS316: Renaissance and Reformation Europe
  - » HIS318: American Indian History
  - » HIS329: The German Experience
  - » SPA307: Latin American Civilization
  - » SPA308: Hispanic Civilization
- Natural Sciences General Education 2 (N2)
- Philosophy/Ethics/Religion General Education 2 (P2)
- Social Sciences General Education 2 (S2)

**Humanities General Education 2 (H2)**

Distribution Component

NOTE: A student must take one GE2 course. A GE2 course must be from the same discipline as one of the GE1 courses previously taken (e.g., a GE1 English course and a GE2 English course). A GE2 course builds upon knowledge from a previous GE1 course and provides depth in an area of interest outside a student's major. Some GE2 courses have a prerequisite. Students should consult the catalog descriptions for courses that interest them to determine whether this might be the case.

- ENG242: American Literature: One Nation, Many Voices (4 hours)
- ENG300: Great Authors (4 hours)
- ENG303: Milton and Moral Choice - His Age and Ours (4 hours)
- ENG304: Shakespeare: From Stage to Screen (4 hours)
- ENG305: Advanced Exposition and the Rhetorical Tradition (4 hours)
- ENG312: Modernism (4 hours)
- FRE307: French Civilization (4 hours)
- GER318: Topics in German Culture and Literature (4 hours)
- HIS210: Hist-American Foreign Relations (4 hours)
- HIS213: Women in American History (4 hours)
- HIS215: American Encounters: Natives, Africans, and Europeans in the Americans, 1350-1750 (4 hours)
- HIS217: Renaissance and Reformation Europe (4 hours)
- HIS225H: Medieval Europe, China, and the Islamic Crescent (4 hours)
- HIS254: Topics in Medieval European History (4 hours)
- HIS257: Europe's Civil War: 1900-1950 (4 hours)
- HIS301: The Forging of a Nation - The Colonial and Revolutionary Experience in North America (4 hours)
- HIS316: Renaissance and Reformation Europe (4 hours)
- HIS318: American Indian History (4 hours)
- HIS329: The German Experience (4 hours)
- SPA307: Latin American Civilization (4 hours)
- SPA308: Hispanic Civilization (4 hours)

**GE1 and GE2 Courses**

Fine Arts General Education I (F1)

Humanities General Education 1 (H1)

Natural Sciences General Education 1 (N1)

Philosophy/Ethics/Religion General Education 1 (P1)

Social Sciences General Education 1 (S1)

Fine Arts General Education 2 (F2)

Humanities General Education 2 (H2)

**Natural Sciences General Education 2 (N2)**

» ENV222: Environmental Sustainability

» ENV367: Geographic Information Systems

Philosophy/Ethics/Religion General Education 2 (P2)

Social Sciences General Education 2 (S2)

**Natural Sciences General Education 2 (N2)**

Distribution Component

NOTE: A student must take one GE2 course. A GE2 course must be from the same discipline as one of the GE1 courses previously taken (e.g., a GE1 English course and a GE2 English course). A GE2 course builds upon knowledge from a previous GE1 course and provides depth in an area of interest outside a student's major. Some GE2 courses have a prerequisite. Students should consult the catalog descriptions for courses that interest them to determine whether this might be the case.

- [ENV222: Environmental Sustainability \(4 hours\)](#)
- [ENV367: Geographic Information Systems \(4 hours\)](#)

**GE1 and GE2 Courses**

Fine Arts General Education I (F1)

Humanities General Education 1 (H1)

Natural Sciences General Education 1 (N1)

Philosophy/Ethics/Religion General Education 1 (P1)

Social Sciences General Education 1 (S1)

Fine Arts General Education 2 (F2)

Humanities General Education 2 (H2)

Natural Sciences General Education 2 (N2)

[Philosophy/Ethics/Religion General Education 2 \(P2\)](#)

- » PHI205: Philosophy, Politics, and Economics
  - » PHI206: Ethics
  - » PHI206H: Ethics
  - » PHI307: World Philosophy
  - » PHI308: Philosophy of Religion
  - » PHI320: Ancient and Mediaeval Philosophy
  - » PHI321: Modern and Contemporary Philosophy
  - » REL306: Asian Religions
  - » REL308: Philosophy of Religion
  - » REL310: Powers, Politics, and Pluralism in Biblical Interpretation
  - » REL316: Judaism, Christianity, and Islam
- Social Sciences General Education 2 (S2)

**Philosophy/Ethics/Religion General Education 2 (P2)**

Distribution Component

NOTE: A student must take one GE2 course. A GE2 course must be from the same discipline as one of the GE1 courses previously taken (e.g., a GE1 English course and a GE2 English course). A GE2 course builds upon knowledge from a previous GE1 course and provides depth in an area of interest outside a student's major. Some GE2 courses have a prerequisite. Students should consult the catalog descriptions for courses that interest them to determine whether this might be the case.

- [PHI205: Philosophy, Politics, and Economics \(4 hours\)](#)
- [PHI206: Ethics \(4 hours\)](#)
- [PHI206H: Ethics \(4 hours\)](#)
- [PHI307: World Philosophy \(4 hours\)](#)
- [PHI308: Philosophy of Religion \(4 hours\)](#)
- [PHI320: Ancient and Mediaeval Philosophy \(4 hours\)](#)
- [PHI321: Modern and Contemporary Philosophy \(4 hours\)](#)
- [REL306: Asian Religions \(4 hours\)](#)
- [REL308: Philosophy of Religion \(4 hours\)](#)
- [REL310: Powers, Politics, and Pluralism in Biblical Interpretation \(4 hours\)](#)
- [REL316: Judaism, Christianity, and Islam \(4 hours\)](#)



**GE1 and GE2 Courses**

Fine Arts General Education I (F1)

Humanities General Education 1 (H1)

Natural Sciences General Education 1 (N1)

Philosophy/Ethics/Religion General Education 1 (P1)

Social Sciences General Education 1 (S1)

Fine Arts General Education 2 (F2)

Humanities General Education 2 (H2)

Natural Sciences General Education 2 (N2)

Philosophy/Ethics/Religion General Education 2 (P2)

**Social Sciences General Education 2 (S2)**

- » COM319: Communication Theory
- » ECO306: Microeconomic Theory
- » ECO307: Macroeconomic Theory
- » PBH421: Epidemiology
- » POL285: International Conflict and Security
- » POL301: Politics of Developed Nations
- » POL303: Politics of Developing Nations
- » POL321: International Law
- » PSY221: Life-Span Psychology
- » SOC213: Race and Ethnicity Studies in Criminal Justice

## Social Sciences General Education 2 (S2)

Distribution Component

NOTE: A student must take one GE2 course. A GE2 course must be from the same discipline as one of the GE1 courses previously taken (e.g., a GE1 English course and a GE2 English course). A GE2 course builds upon knowledge from a previous GE1 course and provides depth in an area of interest outside a student's major. Some GE2 courses have a prerequisite. Students should consult the catalog descriptions for courses that interest them to determine whether this might be the case.

- **COM319: Communication Theory (4 hours)**
- **ECO306: Microeconomic Theory (4 hours)**
- **ECO307: Macroeconomic Theory (4 hours)**
- **PBH421: Epidemiology (4 hours)**
- **POL285: International Conflict and Security (4 hours)**
- **POL301: Politics of Developed Nations (4 hours)**
- **POL303: Politics of Developing Nations (4 hours)**
- **POL321: International Law (4 hours)**
- **PSY221: Life-Span Psychology (4 hours)**
- **SOC213: Race and Ethnicity Studies in Criminal Justice (4 hours)**

**Pioneer Core**

The Pioneer Core Program  
Cross-Cultural Component  
Distribution Component  
GE1 and GE2 Courses

**Cross Cultural Experiences**

- » NCE207: Practicing Intercultural Communication in Thailand
- » NCE305: Reefs, Rainforests and Ruins of Belize
- » NCE309: Germany, Poland and Hungary
- » NCE312: China - Its Modern Reality
- » NCE313: Revising Italy - Travel Writing in the Italian Tradition
- » NCE315: Australia - The Land and the People Down Under
- » NCE316: Multicultural South Africa
- » NCE317: The Cultural and Environmental Geography of Alaska
- » NCE318: Mexico - Culture, Health and Human Services
- » NCE319: Art and Culture of the Ancient and Modern Maya
- » NCE320: Paris - Art and Culture
- » NCE321: Contemporary Germany - Its Culture, Economy, and Politics
- » NCE323: Travel Journals
- » NCE325: Politics and Theatre in the UK and USA
- » NCE328: Spain: Multicultural Faces and Footprints
- » NCE329: Japan: Exploring a Land of Contrasts
- » NCE330: Iceland: A Comparative Exploration Through Cinematography and Storytelling

## CCD Courses

Organization of Majors in  
Distribution Areas

**Cross Cultural Experiences**

**Ellen Barclay**      **Director of General Education**  
**Jeannie Jaworski**      **Director of International Education**  
**Jennifer Tadeo**      **Assistant Director of International Education**  
**Lezlie Weber**      **Assistant Director of Cross-Cultural Experiences**

**Cross-Cultural Experience**

The Cross-Cultural Experience is a signature component of Carroll's Pioneer Core curriculum, which is characterized by an integrating theme of culture and a requirement for domestic or international Cross-Cultural immersion. This experience challenges students to apply classroom-based examinations of culture and to interact with cultures other than their own in an off-campus setting. For a link to the CCE site [click here](#).

The Cross Cultural Experience has three parts: preparation, immersion and reflection. Research has shown that all three parts are required to ensure that students get the most from the Cross Cultural Experience. The immersion portion requires at least 60 hours of meaningful internation with a culture other than the student's own. Students may choose from a variety of choices to fulfill the CCE requirement. Options include local, domestic and international experiences:

- International study abroad, for a summer, winter, semester, or academic year program
- CCS 300 (2 credits) or NCE course (4 credits)
- Discipline-specific courses approved for CCE credit
- Internships, practicums and clinical experiences approved for CCE credit

**Study Abroad Cross-Cultural Experiences (CCEs)**

Students in good academic standing with at least 16 completed Carroll University credits at the time of participation may apply for approval to enroll in a study abroad program. Approved study abroad students remain enrolled at the university during the semester or academic-year study abroad period. Applications for study abroad are due at least one semester prior to the semester in which the student intends to study; however, students are advised to apply for study abroad a full year ahead of their intended study.

A listing of the many and varied study abroad opportunities is available on the "Study Abroad" link of this site or on the Carroll University CCE webpage.

**CCS300**

CCS 300 courses are typically short-term travel courses led by Carroll faculty. CCS 300 courses carry two academic credits and generally take students off-campus during the Winter Term, in the summer or during spring break. Prior to any travel, students will participate in classroom preparation with some academic content. Students also will engage in post-experience reflection activities. CCS300 courses carry two academic credits and are taught by Carroll University instructors. In most cases, the instructor travels with the students and continues to teach the course while at the immersion site.

**Eligibility:** Students interested in a CCS 300 course must submit a CCE application through the CCE website and have a minimum of 16 completed credit hours from Carroll University at the time of participation. Enrollment is determined by the office of General Education which reviews student records to ensure that the applicant is in good standing related to both academics and conduct. Students must have completed CCS 100 or CCS 101 and must have completed or be concurrently taking their GE CCD course.

**Fees** for CCS 300 courses vary according to the program. Additional information for CCE courses is available on the Carroll University CCE Webpage or from A. Paul Jones Scholars Hall.

**Course Offerings:** CCS 300 course offerings are typically announced each spring for the next academic year. Up to date information can be found on the CCE website.

**New Cultural Experience Programs (NCE)**

NCE courses carry four academic credits and are taught by Carroll University instructors. Each course has a specific academic focus along with a particular emphasis on understanding new cultures. Prior to travel, the students spend a semester in academic preparation.

**Eligibility:** Students interested in an NCE course must submit a CCE application and have a minimum of 16 completed credit hours from Carroll University at the time of participation. Enrollment is determined by the office of General Education which reviews student records to ensure that the applicant is in good standing related to both academics and conduct. Students must have completed CCS 100 or CCS 101 and must have completed or be concurrently taking their GE CCD course.

**Fees** for NCEP courses vary according to the program. Additional information for CCE courses is available on the Carroll University CCE Webpage or from A. Paul Jones Scholars Hall.

- **NCE207: Practicing Intercultural Communication in Thailand (4 hours)**
- **NCE305: Reefs, Rainforests and Ruins of Belize (4 hours)**
- **NCE309: Germany, Poland and Hungary (4 hours)**
- **NCE312: China - Its Modern Reality (4 hours)**

- NCE313: Revising Italy - Travel Writing in the Italian Tradition (4 hours)
- NCE315: Australia - The Land and the People Down Under (4 hours)
- NCE316: Multicultural South Africa (4 hours)
- NCE317: The Cultural and Environmental Geography of Alaska (4 hours)
- NCE318: Mexico - Culture, Health and Human Services (4 hours)
- NCE319: Art and Culture of the Ancient and Modern Maya (4 hours)
- NCE320: Paris - Art and Culture (4 hours)
- NCE321: Contemporary Germany - Its Culture, Economy, and Politics (4 hours)
- NCE323: Travel Journals (4 hours)
- NCE325: Politics and Theatre in the UK and USA (4 hours)
- NCE328: Spain: Multicultural Faces and Footprints (4 hours)
- NCE329: Japan: Exploring a Land of Contrasts (4 hours)
- NCE330: Iceland: A Comparative Exploration Through Cinematography and Storytelling (4 hours)

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**Pioneer Core**

The Pioneer Core Program

Cross-Cultural Component

Distribution Component

GE1 and GE2 Courses

Cross Cultural Experiences

**CCD Courses**

- » COM207: Intercultural Communication
- » ENG162: Science Fiction and Gender
- » ENG164: American Indian Literature and Spirituality
- » ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class
- » ENG210: African American Literature
- » ENG214: Global Film Theory and Criticism
- » ENG242: American Literature: One Nation, Many Voices
- » ENG255: Postcolonial Literature and Theory
- » ENG255H: Postcolonial Literature and Theory
- » ENG300: Great Authors
- » FRE301: Conversation & Composition
- » GER301: Conversation & Composition
- » HIS110: History of Modern China
- » HIS112: Intro to Latin America History
- » HIS215: American Encounters: Natives, Africans, and Europeans in the Americans, 1350-1750
- » HIS224H: The World Since 1945
- » HIS225H: Medieval Europe, China, and the Islamic Crescent
- » HIS257: Europe's Civil War: 1900-1950
- » HIS301: The Forging of a Nation - The Colonial and Revolutionary Experience in North America
- » HIS318: American Indian History
- » HIS329: The German Experience
- » PBH102: Global Health
- » PHI213: Philosophy of Art
- » PHI307: World Philosophy
- » POL103: Politics of the World's Nations
- » POL155: Contemporary Global Politics
- » POL285: International Conflict and Security
- » POL301: Politics of Developed Nations
- » POL303: Politics of Developing Nations
- » POL321: International Law

**CCD Courses**

- COM207: Intercultural Communication (4 hours)
- ENG162: Science Fiction and Gender (4 hours)
- ENG164: American Indian Literature and Spirituality (4 hours)
- ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class (4 hours)
- ENG210: African American Literature (4 hours)
- ENG214: Global Film Theory and Criticism (4 hours)
- ENG242: American Literature: One Nation, Many Voices (4 hours)
- ENG255: Postcolonial Literature and Theory (4 hours)
- ENG255H: Postcolonial Literature and Theory (4 hours)
- ENG300: Great Authors (4 hours)
- FRE301: Conversation & Composition (4 hours)
- GER301: Conversation & Composition (4 hours)
- HIS110: History of Modern China (4 hours)
- HIS112: Intro to Latin America History (4 hours)
- HIS215: American Encounters: Natives, Africans, and Europeans in the Americans, 1350-1750 (4 hours)
- HIS224H: The World Since 1945 (4 hours)
- HIS225H: Medieval Europe, China, and the Islamic Crescent (4 hours)
- HIS257: Europe's Civil War: 1900-1950 (4 hours)
- HIS301: The Forging of a Nation - The Colonial and Revolutionary Experience in North America (4 hours)
- HIS318: American Indian History (4 hours)
- HIS329: The German Experience (4 hours)
- PBH102: Global Health (4 hours)
- PHI213: Philosophy of Art (4 hours)
- PHI307: World Philosophy (4 hours)
- POL103: Politics of the World's Nations (4 hours)
- POL155: Contemporary Global Politics (4 hours)
- POL285: International Conflict and Security (4 hours)
- POL301: Politics of Developed Nations (4 hours)
- POL303: Politics of Developing Nations (4 hours)
- POL321: International Law (4 hours)
- PSY221: Life-Span Psychology (4 hours)
- REL210: Suffering and Hope (4 hours)
- REL215: Women in Religion (4 hours)
- REL220: Health and Religion (4 hours)
- REL224: Religion and Literature (4 hours)
- REL306: Asian Religions (4 hours)
- REL310: Powers, Politics, and Pluralism in Biblical Interpretation (4 hours)
- REL316: Judaism, Christianity, and Islam (4 hours)
- SOC110: Cultural Anthropology (4 hours)
- SPA301: Conversation and Composition I (4 hours)
- SPA307: Latin American Civilization (4 hours)
- SPA308: Hispanic Civilization (4 hours)
- THE215: Theatre History and Literature I (4 hours)
- THE216: Theatre History and Literature II (4 hours)

**Pioneer Core**

The Pioneer Core Program  
 Cross-Cultural Component  
 Distribution Component  
 GE1 and GE2 Courses  
 Cross Cultural Experiences  
 CCD Courses  
[Organization of Majors in  
 Distribution Areas](#)

**Organization of Majors in Distribution Areas****Fine Arts**

Through practice and study, students will learn about the creative process that is central to disciplines found within the Visual and Performing Arts.

Art  
 Book Art  
 Graphic Communication  
 Music  
 Photography  
 Theatre Arts

**Humanities**

Students will examine literary and historical artifacts to understand diverse cultures and their development over time.

English  
 European Studies  
 History  
 Spanish  
 Writing

**Philosophy/Ethics/Religion**

Students will analyze multiple philosophical, ethical, and religious positions relative to individual and social life and acquire means to enter conversations about ethics, values and meanings.

Religious Studies

**Social Sciences**

Students will learn theoretical and methodological approaches to the study of societal dynamics, and use that knowledge to analyze contemporary social issues.

Accounting  
 Business Administration  
 Communication  
 Criminal Justice  
 Education  
 Global Studies  
 Health Care Administration  
 Organizational Leadership  
 Philosophy/Politics/Economics  
 Physical and Health Education  
 Politics  
 Psychology  
 Public Health  
 Recreation Management  
 Sociology

**Natural Sciences**

Students will learn theoretical and practical methods of the natural sciences and will apply these methods to problems through laboratory or field experiences.

Actuarial Sciences  
 Animal Behavior  
 Applied Physics  
 Athletic Training  
 Biology  
 Chemistry and Biochemistry  
 Computational Science  
 Computer Science  
 Environmental Science  
 Exercise Science  
 Health Science: Diagnostic Medical Sonography  
 Radiological Technology  
 Information Technology  
 Mathematics  
 Medical Laboratory Sciences  
 Nursing  
 Occupational Therapy  
 Software Engineering and Applied Mathematics

**Undergraduate Catalog**

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**Academics**

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**Academics**[Academic Organization](#)

Business, Accounting, and Economics

College of Arts and Sciences

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**Academic Organization****Office of Academic Affairs**

Joanne Passaro, Provost

[College of Arts and Sciences](#)

Charles Byler, Dean

**Department of Communication and Sociology**

Rebecca Imes, chair

- Majors: Communication, Criminal Justice, Sociology

**Department of Computational and Physical Sciences**

Kevin McMahon, chair

- Majors: Actuarial Science, Applied Physics/Engineering Dual Degree Program, Applied Physics, Chemistry and Biochemistry, Computer Science, Information Technology, Mathematics, 3+4 Biochemistry/PharmD Emphasis

- Minor: Aviation Science

- Articulation Programs: 3+2 Engineering Program

- Graduate degree: Master of Software Engineering

**Department of English and Modern Languages**

Deirdre Keenan, chair

- Majors: English and Writing, Spanish

- Minors only: Creative Writing, French, German, Professional Writing, Spanish

**Department of History, Political Science, and Religious Studies**

James Grimshaw, chair

- Majors: Global Studies, History, Philosophy/Political Science/Economics (PPE), Political Science, Religious Studies

- Minor only: Global Studies, History, Medieval and Renaissance Studies, Philosophy, Political Science, Religious Studies

**Department of Life Sciences**

Matthew Scheel, Chair

- Majors: Animal Behavior, Biology, Environmental Science, Marine Sciences, Psychology, 3+4 Biology/Doctor of Podiatry Emphasis

- Articulation Programs: 3+2 Master in Freshwater Sciences, 2+2 Marine Sciences.

**Department of Visual and Performing Arts**

Amy Cropper, chair

- Majors: Art, Graphic Communication, Music, Music Education, Music Therapy, Photography, Theatre Arts Management

- Minor only: Art, Arts Management, Web Design

-Graduate degree: Master of Science Graphic Communication

**Department of Education**

Kimberly White, chair

- Majors: Elementary Education, Educational Studies

- Minor only: Adaptive Education, Early Childhood Education, Secondary Education

- Graduate degree: Master of Education, Master of Science in Educational Leadership

[College of Health Sciences](#)

Jane Hopp, Dean

**Department of Health and Medicine**

Monika Baldrige, chair

- Majors: Health Sciences, Health Sciences-Diagnostic Medical Sonography, Health Sciences-Radiologic Technology, Pre-Medical Laboratory Sciences, Physical and Health Education, Public Health, Sport and Recreation Administration, Therapeutic Recreation Emphasis.

- Minor: Coaching, Health and Human Experience,

- Articulation Programs: 3+4 Doctor of Podiatry Program, 3+4 Doctor of Pharmacy Program.

- Graduate degree: Master of Science in Physician Assistant Studies, Master of Occupational Therapy

**Department of Human Movement Sciences**

Thomas Pahnke, chair  
- Majors: Athletic Training, Exercise Science, Pre-Physical Therapy  
- Minor only: Sports Nutrition  
- Graduate degrees: Master of Science in Exercise Physiology  
- Certificate: Orthopaedic Technology

**Department of Nursing**

Angela Brindowski, chair  
- Major: Nursing

**Doctorate of Physical Therapy**

Sara Deprey, director

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**Department of Business, Accounting and Economics**

Carol Tallarico, Executive Director  
- Majors: Accounting, Business Administration, Business Economics, Finance, Health Care Administration, Management and Leadership, Marketing  
- Minors: Accounting, Economics, Finance, Health Care Administration, Management and Leadership, Marketing  
- Graduate degree: Master of Business Administration



**Academics**

Academic Organization

**Business, Accounting, and Economics**

» Courses offered by this Department

» Majors and Minors

» Undergraduate

College of Arts and Sciences

College of Health Sciences

Enrichment Programs

Department and Major Codes

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**Department: Business, Accounting, and Economics**

Chairperson: Carol Tallarico  
 Room: Business Hall 101 Email: [ctallari@carrollu.edu](mailto:ctallari@carrollu.edu)  
 Telephone: 262-951-3027 Fax: 262-524-7397

**DEPARTMENT FACULTY**

<u>Name</u>	<u>Title</u>	<u>Area</u>	<u>Email</u>
<b>Dennis Debrecht</b>	<b>Associate Professor</b>	<b>Economics</b>	<a href="mailto:ddebrech@carrollu.edu">ddebrech@carrollu.edu</a>
<b>Sarah Esveldt</b>	<b>Senior Lecturer</b>	<b>Health Care Administration</b>	<a href="mailto:sesveldt@carrollu.edu">sesveldt@carrollu.edu</a>
<b>Gregory Kuhlemeyer</b>	<b>Professor</b>	<b>Finance</b>	<a href="mailto:gkuhleme@carrollu.edu">gkuhleme@carrollu.edu</a>
<b>Jeffery Kunz</b>	<b>Assistant Professor</b>	<b>Accounting</b>	<a href="mailto:jkunz@carrollu.edu">jkunz@carrollu.edu</a>
<b>Michael Levas</b>	<b>Associate Professor</b>	<b>Marketing</b>	<a href="mailto:mlevas@carrollu.edu">mlevas@carrollu.edu</a>
<b>Canchu Lin</b>	<b>Assistant Professor</b>	<b>Management &amp; Leadership</b>	<a href="mailto:clin@carrollu.edu">clin@carrollu.edu</a>
<b>Gary Olsen</b>	<b>Associate Professor</b>	<b>Accounting</b>	<a href="mailto:golsen@carrollu.edu">golsen@carrollu.edu</a>
<b>Carol Tallarico</b>	<b>Professor</b>	<b>Economics</b>	<a href="mailto:ctallari@carrollu.edu">ctallari@carrollu.edu</a>
<b>Mary Ann Wisniewski</b>	<b>Professor</b>	<b>Management &amp; Leadership</b>	<a href="mailto:mwisniew@carrollu.edu">mwisniew@carrollu.edu</a>
<b>Shaoqiong (Annie) Zhao</b>	<b>Assistant Professor</b>	<b>Marketing</b>	<a href="mailto:szhao@carrollu.edu">szhao@carrollu.edu</a>

**PROGRAMS OF STUDY**Majors

Accounting Major (80 credits)  
 Business Economics Major (64 credits)  
 Finance Major (64 credits)  
 Management and Leadership Major (64 credits)  
 Marketing Major (64 credits)  
 Health Care Administration Major (46 credits)  
 Business Administration Major (44 credits)

Minors

Accounting Minor (16 credits)  
 Economics Minor (20 credits)  
 Finance Minor (16 credits)  
 Management and Leadership Minor (16 credits)  
 Marketing Minor (16 credits)  
 Health Care Administration Minor (22 credits)

**Course Categories**

Courses offered by this Department

ACC100: Personal Finance  
 ACC205: Financial Accounting  
 ACC206: Managerial Accounting  
 ACC207: Intermediate Accounting I  
 ACC208: Intermediate Accounting II  
 ACC305: Advanced Accounting I  
 ACC306: Advanced Accounting II  
 ACC310: Advanced Cost Accounting and Budgeting  
 ACC324: Advanced Business Law  
 ACC375: Pre-internship Seminar  
 ACC405: Tax Accounting I  
 ACC406: Tax Accounting II  
 ACC407: Auditing  
 ACC414: Accounting Theory  
 ACC480: Internship in Accounting  
 ACC483: Internship Option-Prior Work Experience  
 ACC498: Independent Study in Accounting  
 BUS101: Introduction to Business  
 BUS260: Ethics in Business, Govt, and Society  
 BUS265: Human Resource Management  
 BUS290: Principles of Business Law  
 BUS291: Special Topics  
 BUS301: Principles of Marketing  
 BUS302: Principles of Management  
 BUS304: Principles of Finance  
 BUS305: Principles of Operations Management  
 BUS320: Promotion Management  
 BUS321: Careers in Finance  
 BUS327: Business to Business Marketing  
 BUS341: Applied Risk Management  
 BUS342: Investment Management  
 BUS344: Management of Financial Institutions  
 BUS356: Applied Financial Management  
 BUS360: Career Development  
 BUS435: Marketing Research

BUS479: Consulting Management  
BUS480: Internship in Business  
BUS483: Internship Option-Prior Work Experience  
BUS496: Business Policies  
BUS498: Independent Study in Business  
ECO124: Principles of Economics I - Microeconomics  
ECO225: Principles of Economics II - Macroeconomics  
ECO306: Microeconomic Theory  
ECO307: Macroeconomic Theory  
ECO314: Econometrics  
ECO343: Money and Banking  
ECO363: International Economics  
HCA100: Health Care Terminology  
HCA150: Introduction to Health Care  
HCA200: Health Care Economics and Policy  
HCA300: Health Care Management  
HCA350: Health Care Law and Ethics  
HCA400: Health Care Financial Management  
HCA450: Health Care Information Management  
LEA190: Leadership and Personal Effectiveness  
LEA302: Leadership Theory and Practice  
LEA499: Leading Change  
Majors and Minors  
Undergraduate  
Accounting Major (80 credits)  
Accounting Minor (16 credits)  
Business Administration (44 credits)  
Business Economics Major (64 credits)  
Economics Minor (20 credits)  
Finance Major (64 credits)  
Finance Minor (16 credits)  
Health Care Administration Major (46 credits)  
Health Care Administration Minor (22 credits)  
Management and Leadership Major (64 credits)  
Management and Leadership Minor (16 credits)  
Marketing Major (64 credits)  
Marketing Minor (16 credits)

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**Undergraduate****Accounting Major (80 credits)**

- » Additional Certifications for Accountants
- » Required Courses: (80 Credits)
- » Recommended Courses for students who wish to sit for the CPA Exam
- » Bachelor of Science Requirement
- » The Pioneer Core Program

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Accounting Major (80 credits)****PROGRAM ADVISORS:**

Jeffrey T. Kunz, Assistant Professor (jkunz@carrollu.edu)

Gary L. Olsen, Associate Professor (golsen@carrollu.edu)

*The Accounting program provides superior educational opportunities that increase students' professional effectiveness and career success in complex business environments. Carroll University offers three options for students interested in preparing for a position of leadership and responsibility in accounting, whether it is in the public, private or governmental sectors of our economy.*

**Learning Outcomes for Accounting**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Define and describe accounting-related terminology and concepts.</li> <li>2. Solve complex accounting problems using appropriate tools and techniques.</li> <li>3. Formulate accounting policies and strategies and evaluate their effectiveness.</li> <li>4. Integrate global considerations in accounting decisions.</li> </ol> | <ol style="list-style-type: none"> <li>5. Demonstrate multiple effective communication skills.</li> <li>6. Work effectively in team environments.</li> <li>7. Demonstrate appropriate habits, behaviors and attitudes in professional situations.</li> </ol> |
|---|--|

**Option 1: Accounting Major** is designed for students wishing to complete an accounting major that will enable them, upon graduation, to obtain a position in a corporate or not-for-profit organization.

[Accounting Four Year Plan](#) | [Accounting Advising Worksheet](#)

**Option 2: Accounting major / CPA** is designed for students interested in obtaining a Certified Public Accountant (CPA) designation. The CPA designation requires the completion of 150 credit hours. Students wishing to meet the requirements to "sit" for the CPA exam can do so in four years by following a specified curriculum. Through careful planning additional competencies can be gained that will allow the student to consider other certifications.

[Accounting / CPA Four Year Plan](#)

**Option 3: Accounting major / CPA / MBA** is designed for students wishing to major in accounting, obtain the CPA designation, and complete the MBA program within a four year period.

[Accounting / CPA / MBA Four Year Plan](#)

- Additional Certifications for Accountants
- Required Courses: (80 Credits)
  - ACC205: Financial Accounting (4 hours)
  - ACC207: Intermediate Accounting I (4 hours)
  - ACC208: Intermediate Accounting II (4 hours)
  - ACC305: Advanced Accounting I (4 hours)
  - ACC306: Advanced Accounting II (4 hours)
  - ACC310: Advanced Cost Accounting and Budgeting (4 hours)
  - ACC324: Advanced Business Law (4 hours)
  - ACC375: Pre-internship Seminar (2 hours)
  - ACC405: Tax Accounting I (4 hours)
  - ACC406: Tax Accounting II (4 hours)
  - ACC407: Auditing (4 hours)
  - ACC414: Accounting Theory (4 hours)
  - ACC480: Internship in Accounting (1 TO 12 hours)
  - \*Note: A minimum of 2 hours in ACC480 is required for the major.
  - BUS290: Principles of Business Law (2 hours)
  - BUS304: Principles of Finance (4 hours)
  - BUS305: Principles of Operations Management (4 hours)
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - CSC109: Technological Productivity (2 hours)
  - CSC220: Information Systems (4 hours)
  - ECO124: Principles of Economics I - Microeconomics (4 hours)
  - ECO225: Principles of Economics II - Macroeconomics (4 hours)
- Recommended Courses for students who wish to sit for the CPA Exam
  - BUS301: Principles of Marketing (4 hours)
  - BUS302: Principles of Management (4 hours)
  - MAT130: Elementary Functions (4 hours)
  - OR -HIGHER: Other higher level course of the same subject

Transfer students must complete 20 hours of Accounting courses required for the major at Carroll University.

Students transferring in Accounting courses required for the Accounting major must have completed the course within 4 years of the transfer date to Carroll University. The transfer date is defined as the start date of courses at Carroll.

Any 300 or 400 level Accounting courses applied to the Accounting major requirements must have been completed within 5 years of completion of the undergraduate degree. For the tax sequence (ACC 405 & 406) only ACC 406 must be completed within 5 years of completion of the undergraduate degree.

CMP112 and CMP114 satisfy the Bachelor of Science requirement.

- Bachelor of Science Requirement

#### **Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- **The Pioneer Core Program**
  - **Cross-Cultural Component**
  - **Distribution Component**
  - **GE1 and GE2 Courses**
  - **Cross Cultural Development**

For a complete list of CCD courses, [click here](#).

## Sample Accounting Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ECO124	Microeconomics	4
ENG170	Writing Seminar	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		32

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		32

Fall - Year 2		
Course	Course Title	CR
ACC207	Intermediate Accounting I	4
CMP112	Computational Thinking I	4
ECO225	Macroeconomics	4
GE2	F2/H2/N2/P2	4
Semester Credits		16
Total Credits		48

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		48

Spring - Year 2		
Course	Course Title	CR
ACC208	Intermediate Accounting II	4
BUS290	Principles of Business Law	2
CCD	Cross Cultural Development	4
CMP114	Computational Thinking II	4
CSC109	Technological Productivity	2
Semester Credits		16
Total Credits		64

Summer - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		64

Fall - Year 3		
Course	Course Title	CR
ACC305	Advanced Accounting	4
ACC310	Adv Cost Account & Budget	4
ACC375	Pre-Internship Seminar	2
BUS305	Princ. of Operations Mgmt	4
CCE	Cross Cultural Experience	2
Semester Credits		16
Total Credits		80

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		80

Spring - Year 3		
Course	Course Title	CR
ACC306	Advanced Accounting II	4
ACC324	Advanced Business Law	4
CSC220	Information Systems	4
ELE	Elective	4
Semester Credits		16
Total Credits		96

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		96

Fall - Year 4		
Course	Course Title	CR
ACC405	Tax Accounting I	4
ACC407	Auditing	4
ACC480	Internship In Accounting	2
BUS304	Principles of Finance	4
CCS400	Global Perspectives Colloquium	2
Semester Credits		16
Total Credits		112

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		112

Spring - Year 4		
Course	Course Title	CR
ACC406	Tax Accounting II	4
ACC414	Accounting Theory	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		128

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		128



Name \_\_\_\_\_

ID # \_\_\_\_\_

Faculty Advisor \_\_\_\_\_

### PIONEER CORE

#### Cross-Cultural Component

Course #	Name	Credits	Course	Semester	Grade
CCS100	Cultural Seminar	4	_____	_____	_____
ENG170	Writing Seminar	4	_____	_____	_____
CCD	Cross-Cultural Dvlpmnt	4	_____	_____	_____
CCE	Cross-Cultural Experience 2 to 4	_____	_____	_____	_____
CCS400	Global Persp. Colloquium	2	_____	_____	_____

#### Distribution Component

Course Name	Credits	Course	Semester	Grade
GE1 Fine Arts	4	_____	_____	_____
GE1 Humanities	4	_____	_____	_____
GE1 Philosophy/Ethics/Religion	4	_____	_____	_____
GE1 Natural Sciences	4	_____	_____	_____
GE2* 2nd course in one of the GE1 disciplines above	4	_____	_____	_____

\*This course must also be in the same subject category as a GE1.

**Note: Course grades of "F" or "W"**

**do not earn academic credit**

**128 credit hours needed for graduation**

**Note: for CPA licensure, 150 credit hours**

**need to be completed**

Credit hours earned \_\_\_\_\_

### ACCOUNTING MAJOR (80 credit hours)

Course #	Name	Credits	Semester	Grade
ACC205	Financial Accounting (Fall, Spring)	4	_____	_____
ACC207	Intermediate Accounting I <i>Pre-req: ACC205 (Fall only)</i>	4	_____	_____
ACC208	Intermediate Accounting II <i>Pre-req: ACC207 (Spring only)</i>	4	_____	_____
ACC305	Advanced Accounting <i>Pre-req: ACC208 (Fall only)</i>	4	_____	_____
ACC306	Advanced Accounting II <i>Pre-req: ACC305 or consent (Spring only)</i>	4	_____	_____
ACC310	Advanced Cost Accounting and Budgeting <i>Pre-req: ACC205 (Fall only)</i>	4	_____	_____
ACC324	Advanced Business Law <i>Pre-req: BUS290 (Spring only)</i>	4	_____	_____
ACC375	Pre-Internship Seminar <i>Pre-req: junior standing (Fall only)</i>	2	_____	_____
ACC405	Tax Accounting I <i>Pre-req: ACC205 (Fall only)</i>	4	_____	_____
ACC406	Tax Accounting II <i>Pre-req: ACC405 (Spring only)</i>	4	_____	_____
ACC407	Auditing <i>Pre-req: ACC306 or consent (Fall only)</i>	4	_____	_____
ACC414	Accounting Theory <i>Pre-req: ACC306 or consent (Spring only)</i>	4	_____	_____
ACC480	Internship in Accounting <i>Pre-req: Junior standing and approval of instructor</i>	2	_____	_____
BUS290	Principles of Business Law (Fall, Spring)	2	_____	_____
BUS304	Principles of Finance <i>Pre-req: ECO124, ECO225, CMP114 and ACC310 or ACC206 (Fall, Spring)</i>	4	_____	_____
BUS305	Principles of Operations Management <i>Pre-req: CMP114 (Fall, Spring)</i>	4	_____	_____
ECO124	Principles of Economics I – Microeconomics (Fall, Spring)	4	_____	_____
ECO225	Principles of Economics II – Macroeconomics (Fall, Spring)	4	_____	_____
CMP112	Computational Thinking I <i>Pre-req: MAT 101 (Fall, Spring)</i>	4	_____	_____
CMP114	Computational Thinking II <i>Pre-req: CMP 112 (Fall, Spring)</i>	4	_____	_____
CSC109	Technological Productivity (Fall, Spring)	2	_____	_____
CSC220	Information Systems (Fall, Spring)	4	_____	_____
<b>Recommended courses for students who wish to sit for the CPA exam</b>				
BUS301	Principles of Marketing <i>Pre-req: Sophomore standing (Fall, Spring)</i>	4	_____	_____
BUS302	Principles of Management <i>Pre-req: Sophomore standing (Fall, Spring)</i>	4	_____	_____
MAT130	or higher	4	_____	_____

## Sample Accounting/CPA Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ECO124	Microeconomics	4
ENG170	Writing Seminar	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		32

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		32

Fall - Year 2		
Course	Course Title	CR
ACC207	Intermediate Accounting I	4
BUS290	Principles of Business Law	2
CMP112	Computational Thinking I	4
ECO225	Macroeconomics	4
GE2	F2/H2/N2/P2	4
Semester Credits		18
Total Credits		50

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		50

Spring - Year 2		
Course	Course Title	CR
ACC208	Intermediate Accounting II	4
CCD	Cross Cultural Development	4
CMP114	Computational Thinking II	4
CSC109	Technological Productivity	2
MAT130	Elementary Functions	4
Semester Credits		18
Total Credits		68

Summer - Year 2		
Course	Course Title	CR
ELE	Elective	4
Semester Credits		4
Total Credits		72

Fall - Year 3		
Course	Course Title	CR
ACC305	Advanced Accounting	4
ACC310	Adv Cost Account & Budget	4
ACC375	Pre-Internship Seminar	2
BUS305	Principles of Operations Mgmt	4
CSC220	Information Systems	4
Semester Credits		18
Total Credits		90

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		90

Spring - Year 3		
Course	Course Title	CR
ACC306	Advanced Accounting II	4
ACC324	Advanced Business Law	4
BUS301	Principles of Marketing	4
BUS302	Principles of Management	4
CCE	Cross Cultural Experience	2
Semester Credits		18
Total Credits		108

Summer - Year 3		
Course	Course Title	CR
ACC480	Internship in Accounting	6
Semester Credits		6
Total Credits		114

Fall - Year 4		
Course	Course Title	CR
ACC405	Tax Accounting I	4
ACC407	Auditing	4
BUS304	Principles of Finance	4
CCS400	Global Perspectives Colloquium	2
ELE	Elective	4
Semester Credits		18
Total Credits		132

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		132

Spring - Year 4		
Course	Course Title	CR
ACC406	Tax Accounting II	4
ACC414	Accounting Theory	4
ACC480	Internship in Accounting	2
ELE	Elective	4
ELE	Elective	4
Semester Credits		18
Total Credits		150

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		150

\*\*This four-year plan is for illustrative purposes only and is based out of the 2016-2017 Carroll University Catalog. Please work with a member of the Center for Academic Advising Services staff and your Faculty Advisor to create a unique four-year plan for you.\*\*

## Sample Accounting/CPA/MBA Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ECO124	Microeconomics	4
ENG170	Writing Seminar	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
CSC109	Technological Productivity	2
ECO225	Macroeconomics	4
GE1	F1/H1/N1/P1	4
MAT130	Elementary Functions	4
Semester Credits		18
Total Credits		34

Summer - Year 1		
Course	Course Title	CR
ACC207	Intermediate Accounting I	4
ACC208	Intermediate Accounting II	4
GE1	F1/H1/N1/P1	4
Semester Credits		12
Total Credits		46

Fall - Year 2		
Course	Course Title	CR
ACC305	Advanced Accounting	4
ACC310	Adv Cost Account & Budget	4
BUS290	Principles of Business Law	2
CCD	Cross Cultural Development	4
CMP112	Computational Thinking I	4
Semester Credits		18
Total Credits		64

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		64

Spring - Year 2		
Course	Course Title	CR
ACC306	Advanced Accounting II	4
ACC324	Advanced Business Law	4
BUS302	Principles of Management	4
CCE	Cross Cultural Experience	2
CMP114	Computational Thinking II	4
Semester Credits		18
Total Credits		82

Summer - Year 2		
Course	Course Title	CR
CSC220	Information Systems	4
GE1	F1/H1/N1/P1	4
Semester Credits		8
Total Credits		90

Fall - Year 3		
Course	Course Title	CR
ACC375	Pre-Internship Seminar	2
ACC405	Tax Accounting I	4
ACC407	Auditing	4
ACC480	Internship in Accounting	1
BUS304	Principles of Finance	4
BUS305	Principles of Operations Mgmt	4
Semester Credits		19
Total Credits		109

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		109

Spring - Year 3		
Course	Course Title	CR
ACC406	Tax Accounting II	4
ACC414	Accounting Theory	4
ACC480	Internship in Accounting	1
BUS301	Principles of Marketing	4
CCS400	Global Perspectives Colloquium	2
GE2	F2/H2/N2/P2	4
Semester Credits		19
Total Credits		128

Summer - Year 3		
Course	Course Title	CR
BUS580	Information Tech Management	3
BUS615	Current Topics in Bus Law	3
BUS642	International Business	3
Semester Credits		9
Total Credits		137

Fall - Year 4		
Course	Course Title	CR
BUS600	Managerial Economics	3
BUS610	Quant Decision Making	3
BUS620	Advanced Managerial Acctg	3
BUS640	Advanced Fin Decision Making	3
Semester Credits		12
Total Credits		149

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		149

Spring - Year 4		
Course	Course Title	CR
BUS605	Marketing Management	3
BUS625	Leading & Managing in Change	3
BUS635	Ops & Supply Chain Mgmt	3
BUS645	Business Policy & Strategy	3
Semester Credits		12
Total Credits		161

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		161



**Accounting Major (80 credits)**
**Additional Certifications for Accountants**

Required Courses: (80 Credits)

Recommended Courses for students who wish to sit for the CPA Exam

Bachelor of Science Requirement

The Pioneer Core Program

## Additional Certifications for Accountants

With careful planning, the 150-credit accounting curriculum (CPA Emphasis) can provide the competency needed to sit for examinations that can lead to the following professional designations:

**CIA-CERTIFIED INTERNAL AUDITOR:**

**Major:** Accounting (CPA) Emphasis

**Electives:** CSC 110, CSC 271, and CSC 409.

**For more information contact:**

Institute of Internal Auditors

247 Maitland Avenue

Altamonte Springs, FL 32701

407-937.1111 [www.theiia.org](http://www.theiia.org)

**CMA-CERTIFIED MANAGEMENT ACCOUNTANT:**

**Major:** Accounting (CPA) Emphasis

**Electives:** BUS 260, BUS 341, BUS 342, ECO 343 or BUS 344 and BUS 361.

**CFM-CERTIFIED FINANCIAL MANAGER:**

**Major:** Accounting (CPA) Emphasis

**Electives:** ACC 100, BUS 341, BUS 342, ECO 343 or BUS 344, and BUS 446.

**For more information on the CMA/CFM contact:**

Institute of Certified Management Accountants

10 Paragon Drive, Suite 1

Montvale, NJ 07645-1760

800-638-4427 [www.imanet.org](http://www.imanet.org)

**CFE-CERTIFIED FRAUD EXAMINER:**

**Major:** Accounting (CPA) Emphasis

**Electives:** SOC 103, SOC 212, SOC 303, SOC 304, and CHE 104.

For more information contact: Association of Certified Fraud Examiner Gregor Building

716 West Avenue

Austin, TX 78701-2727

800-245-3321 [www.acfe.com](http://www.acfe.com)

Students seeking multiple certifications are encouraged to add specific electives to the 150-credit CPA Emphasis in preparation for the national exams.

**Undergraduate**

Accounting Major (80 credits)

[Accounting Minor \(16 credits\)](#)

- » ACC205: Financial Accounting
- » ACC207: Intermediate Accounting I
- » ACC208: Intermediate Accounting II
- » Choose 4 or more hours from the following:

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Accounting Minor (16 credits)****CONTACT PEOPLE:**

Jeffrey T. Kunz, Assistant Professor (jkunz@carrollu.edu)

Gary L. Olsen, Associate Professor (golsen@carrollu.edu)

- [ACC205: Financial Accounting \(4 hours\)](#)
- [ACC207: Intermediate Accounting I \(4 hours\)](#)
- [ACC208: Intermediate Accounting II \(4 hours\)](#)
- Choose 4 or more hours from the following:
  - [ACC206: Managerial Accounting \(2 hours\)](#)
  - [ACC305: Advanced Accounting I \(4 hours\)](#)
  - [ACC310: Advanced Cost Accounting and Budgeting \(4 hours\)](#)
  - [ACC324: Advanced Business Law \(4 hours\)](#)
  - [ACC405: Tax Accounting I \(4 hours\)](#)
  - [ACC406: Tax Accounting II \(4 hours\)](#)

Transfer credit for Accounting courses required for the Accounting minor will only be accepted if the course was taken in four years prior to the date of transfer to Carroll University. The transfer date is defined as the date of the start of courses at Carroll.

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

[Business Administration \(44 credits\)](#)

» Required Courses (44 credits)

» Bachelor of Science Requirement

» The Pioneer Core Program  
Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Business Administration (44 credits)****PROGRAM ADVISOR:****Dennis Debrecht, Associate Professor** ([ddebrech@carrollu.edu](mailto:ddebrech@carrollu.edu))

*A Carroll University Business Administration degree facilitates integration of knowledge, development of lifelong skills, career preparation, and formulation of enduring personal values. Students who major in Business Administration are prepared for a variety of fulfilling and challenging careers with domestic and international organizations. These organizations need articulate, well-reasoning, effective leaders to manage business environments that are dynamic and increasingly complex.*

**Learning Outcomes for Business Administration**

1. Define and describe business-related terminology and concepts.
2. Evaluate and formulate effective business policies and strategies.
3. Solve complex business problems using appropriate tools and techniques.
4. Demonstrate multiple effective communication skills.
5. Work effectively in a team environment.
6. Demonstrate appropriate habits, behaviors and attitudes in professional situations.

## • Required Courses (44 credits)

- [ECO124: Principles of Economics I - Microeconomics \(4 hours\)](#)
- [ECO225: Principles of Economics II - Macroeconomics \(4 hours\)](#)
- [ACC205: Financial Accounting \(4 hours\)](#)
- [ACC206: Managerial Accounting \(2 hours\)](#)
- [BUS290: Principles of Business Law \(2 hours\)](#)
- [BUS301: Principles of Marketing \(4 hours\)](#)
- [BUS302: Principles of Management \(4 hours\)](#)
- [BUS304: Principles of Finance \(4 hours\)](#)
- [BUS305: Principles of Operations Management \(4 hours\)](#)
- [BUS496: Business Policies \(4 hours\)](#)
- [CMP112: Computational Thinking I \(4 hours\)](#)
- [CMP114: Computational Thinking II - Statistical Analysis Emphasis \(4 hours\)](#)

CMP112 and CMP114 satisfy the Bachelor of Science requirement.

[Business Administration Four Year Plan \(PDF\)](#) | [Business Administration Advising Worksheet \(PDF\)](#)[Business Administration Pre-Physical Therapy Four Year Plan \(PDF\)](#) | [Business Administration Pre-Physical Therapy Advising Worksheet \(PDF\)](#)

## • Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- [CMP112](#) and either [CMP113](#) or [CMP114](#) or
- [MAT140](#) or higher and [CSC110](#) or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

## • The Pioneer Core Program

- [Cross-Cultural Component](#)
- [Distribution Component](#)
- [GE1 and GE2 Courses](#)
- [Cross Cultural Development](#)

For a complete list of CCD courses, [click here](#).

## Sample Business Administration Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ECO124	Microeconomics	4
ENG170	Writing Seminar	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		32

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		32

Fall - Year 2		
Course	Course Title	CR
CMP112	Computational Thinking I	4
ECO225	Macroeconomics	4
ELE	Elective	4
GE2	F2/H2/N2/P2	4
Semester Credits		16
Total Credits		48

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		48

Spring - Year 2		
Course	Course Title	CR
ACC206	Managerial Accounting	2
BUS290	Principles of Business Law	2
CCD	Cross Cultural Development	4
CMP114	Computational Thinking II	4
ELE	Elective	4
Semester Credits		16
Total Credits		64

Summer - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		64

Fall - Year 3		
Course	Course Title	CR
BUS301	Principles of Marketing	4
BUS302	Principles of Management	4
BUS304	Principles of Finance	4
BUS305	Principles of Operation Mgmt	4
Semester Credits		16
Total Credits		80

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		80

Spring - Year 3		
Course	Course Title	CR
CCE	Cross Cultural Experience	4
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		96

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		96

Fall - Year 4		
Course	Course Title	CR
ACC100	Personal Finance (suggested)	2
BUS360	Career Developmt (suggested)	4
CCS400	Global Perspectives Colloquium	2
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		112

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		112

Spring - Year 4		
Course	Course Title	CR
BUS496	Business Policies	4
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		128

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		128

\*\*This four-year plan is for illustrative purposes only and is based out of the 2016-2017 Carroll University Catalog. Please work with a member of the Center for Academic Advising Services staff and your Faculty Advisor to create a unique four-year plan for you.\*\*



# CARROLL UNIVERSITY

## ADVISING WORKSHEET BUSINESS ADMINISTRATION 2016-17

Name \_\_\_\_\_

ID # \_\_\_\_\_

Faculty Advisor \_\_\_\_\_

### PIONEER CORE

#### Cross-Cultural Component

Course #	Name	Credits	Course	Semester	Grade
CCS100	Cultural Seminar	4	_____	_____	_____
ENG170	Writing Seminar	4	_____	_____	_____
CCD	Cross-Cultural Dvlpmnt	4	_____	_____	_____
CCE	Cross-Cultural Experience 2 to 4	_____	_____	_____	_____
CCS400	Global Persp. Colloquium	2	_____	_____	_____

#### Distribution Component

Course	Name	Credits	Course	Semester	Grade
GE1	Fine Arts	4	_____	_____	_____
GE1	Humanities	4	_____	_____	_____
GE1	Philosophy/Ethics/Religion	4	_____	_____	_____
GE1	Natural Sciences	4	_____	_____	_____
GE2*	2nd course in one of the GE1 disciplines above	4	_____	_____	_____

\*This course must also be in the same subject category as a GE1.

### BUSINESS ADMINISTRATION MAJOR (44 credit hours)

Course #	Name	Credits	Semester	Grade
ACC205	Financial Accounting (Fall, Spring)	4	_____	_____
ACC206	Managerial Accounting <i>Pre-req: ACC 205 (Fall, Spring)</i>	2	_____	_____
BUS290	Principles of Business Law (Fall, Spring)	2	_____	_____
BUS301	Principles Of Marketing <i>Pre-req: Sophomore standing (Fall, Spring)</i>	4	_____	_____
BUS302	Principles Of Management <i>Pre-req: Sophomore standing (Fall, Spring)</i>	4	_____	_____
BUS304	Principles Of Finance <i>Pre-req: ECO124, ECO225, CMP114 &amp; either ACC310 or ACC206 (Fall, Spring)</i>	4	_____	_____
BUS305	Principles Of Operations Mgmt <i>Pre-req: CMP114 (Fall, Spring)</i>	4	_____	_____
BUS496	Business Policies <i>Pre-req: BUS301, BUS302, BUS304, and BUS305 (Fall, Spring)</i>	4	_____	_____
CMP112	Computational Thinking I <i>Pre-req: MAT 101 (Fall, Spring)</i>	4	_____	_____
CMP114	Computational Thinking II <i>Pre-req: CMP 112 (Fall, Spring)</i>	4	_____	_____
ECO124	Microeconomics (Fall, Spring)	4	_____	_____
ECO225	Macroeconomics (Fall, Spring)	4	_____	_____

**Note: Course grades of "F" or "W"**

**do not earn academic credit**

**128 credit hours needed for graduation**

Credit hours earned \_\_\_\_\_

## Sample Business Administration, Pre-Physical Therapy Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
ANP130	Intro to Human Anat & Phys I	4
CCS100	Cultural Seminar	4
ECO124	Microeconomics	4
ENG170	Writing Seminar	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
ANP140	Intro to Human Anat & Phys II	4
GE1	H1 & CCD	4
PHY101	Introductory Physics I	4
Semester Credits		16
Total Credits		32

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		32

Fall - Year 2		
Course	Course Title	CR
BUS290	Principles of Business Law	2
CHE101	General Chemistry (N1)	4
CMP112	Computational Thinking I	4
ECO225	Macroeconomics	4
PHY102	Introductory Physics II	4
Semester Credits		18
Total Credits		50

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		50

Spring - Year 2		
Course	Course Title	CR
ACC206	Managerial Accounting	2
BUS301	Principles of Marketing	4
BUS302	Principles of Management	4
CHE102	Biological Chemistry	4
CMP114	Computational Thinking II	4
Semester Credits		18
Total Credits		68

Summer - Year 2		
Course	Course Title	CR
GE1	P1	4
Semester Credits		4
Total Credits		72

Fall - Year 3		
Course	Course Title	CR
ANP402	Human Anatomy	4
BUS304	Principles of Finance	4
BUS305	Principles of Operations Mgmt	4
CCE	Cross Cultrual Experience	2
PSY101	Introductory Psychology	4
Semester Credits		18
Total Credits		90

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		90

Spring - Year 3		
Course	Course Title	CR
ANP403	Human Physiology	4
BUS496	Business Policies	4
CCS400	Global Perspectives Colloquium	2
GE1	F1	4
GE2	F2/H2/N2/P2	4
Semester Credits		18
Total Credits		108

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		108

Fall - Year 4		
Course	Course Title	CR
PTH400	Foundations of Prof Practice	3
PTH401	Stat & Research Methods	3
PTH404	Biomechanics	3
PTH406	Exercise Physiology	3
PTH408	Intro to Patient Management	3
Semester Credits		15
Total Credits		123

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		123

Spring - Year 4		
Course	Course Title	CR
PTH405	Neuroscience	3
PTH411	Foundation of Clinical Research	2
PTH412	Tests and Measures	3
PTH414	Adv Kinesiology	3
PTH416	Therapeutic Exercise	4
Semester Credits		15
Total Credits		138

Summer - Year 4		
Course	Course Title	CR
PTH500	Physical Agents	4
PTH501	Adv Patient Management	3
PTH512	Evidence into Practice	2
PTH520	Professional Practice I	2
PTH521	Teaching Lab Practicum	2
PTH525	Systems Development	2
Semester Credits		15
Total Credits		153



## ADVISING WORKSHEET BUSINESS ADMINISTRATION – PRE-PHYSICAL THERAPY 2016-17

Name \_\_\_\_\_

ID # \_\_\_\_\_

Faculty Advisor \_\_\_\_\_

### PIONEER CORE

#### Cross-Cultural Component

Course #	Name	Credits	Course	Semester	Grade
CCS100	Cultural Seminar	4	_____	_____	_____
ENG170	Writing Seminar	4	_____	_____	_____
CCD	Cross-Cultural Dvlpmnt	4	_____	_____	_____
CCE	Cross-Cultural Experience	2 to 4	_____	_____	_____
CCS400	Global Persp. Colloquium	2	_____	_____	_____

#### Distribution Component

Course	Name	Credits	Course	Semester	Grade
GE1	Fine Arts	4	_____	_____	_____
GE1	Humanities	4	_____	_____	_____
GE1	Philosophy/Ethics/Religion	4	_____	_____	_____
GE1^	Natural Sciences	4	_____	_____	_____
GE2*	2nd course in one of the GE1 disciplines above	4	_____	_____	_____

^CHE101 fulfills the Natural Science Distribution Component in the Pioneer Core.

\*This course must also be in the same subject category as a GE1.

**Note: Course grades of "F" or "W"**

**do not earn academic credit**

**128 credit hours needed for graduation**

Credit hours earned \_\_\_\_\_

### BUSINESS ADMINISTRATION MAJOR (44 credit hours)

Course #	Name	Credits	Semester	Grade
ACC205	Financial Accounting (Fall, Spring)	4	_____	_____
ACC206	Managerial Accounting <i>Pre-req: ACC 205</i> (Fall, Spring)	2	_____	_____
BUS290	Principles of Business Law (Fall, Spring)	2	_____	_____
BUS301	Principles Of Marketing <i>Pre-req: Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS302	Principles Of Management <i>Pre-req: Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS304	Principles Of Finance <i>Pre-req: ECO124, ECO225, CMP114 &amp; either ACC310 or ACC206</i> (Fall, Spring)	4	_____	_____
BUS305	Principles Of Operations Mgmt <i>Pre-req: CMP114</i> (Fall, Spring)	4	_____	_____
BUS496	Business Policies <i>Pre-req: BUS301, BUS302, BUS304, and BUS305</i> (Fall, Spring)	4	_____	_____
CMP112	Computational Thinking I <i>Pre-req: MAT 101</i> (Fall, Spring)	4	_____	_____
CMP114	Computational Thinking II <i>Pre-req: CMP 112</i> (Fall, Spring)	4	_____	_____
ECO124	Microeconomics (Fall, Spring)	4	_____	_____
ECO225	Macroeconomics (Fall, Spring)	4	_____	_____
<b><i>The following courses are required as pre-requisites for the Doctor of Physical Therapy:</i></b>				
ANP130	Introduction to Human Anatomy & Physiology I (Fall)	4	_____	_____
ANP140	Intro. to Human Anat. & Phys. II <i>Pre-req: ANP130</i> (Spring)	4	_____	_____
ANP402	Human Anatomy <i>Pre-req: Jr standing; ANP140</i> (Fall)	4	_____	_____
ANP403	Human Physiology <i>Pre-req: Jr standing; ANP140 and CHE 102</i> (Spring)	4	_____	_____
CHE101	General Chemistry (Fall, Spring) <i>Note: fulfills N1 GenEd requirement</i>	4	_____	_____
CHE102	Biological Chemistry <i>Pre-req: CHE101</i> (Spring)	4	_____	_____
PHY101	Introductory Physics I <i>Pre-req: MAT101 or higher</i> (Spring)	4	_____	_____
PHY102	Introductory Physics II <i>Pre-req: PHY101</i> (Fall)	4	_____	_____
PSY101	Introductory Psychology (Fall, Spring)	4	_____	_____

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

**Business Economics Major (64 credits)**

» Required Courses (64 credits)

» Bachelor of Science Requirement

» The Pioneer Core Program

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Business Economics Major (64 credits)****PROGRAM ADVISOR:**Dennis Debrecht, Associate Professor ([ddebrech@carrollu.edu](mailto:ddebrech@carrollu.edu))

*Students who major in Business Economics complete coursework in all of the functional areas of business and then specialize in economics by taking upper division courses in microeconomics, macroeconomics, money and banking, international economics, and econometrics. Students in this major will use quantitative skills and economic theory to analyze varying economic problems. Business Economics prepares students for careers in both the private and public sectors of our economy.*

**Learning Outcomes for Business Economics**

1. Define and describe business-related terminology and concepts.
2. Evaluate and formulate effective business policies and strategies.
3. Solve complex business problems using appropriate tools and techniques.
4. Demonstrate multiple effective communication skills.
5. Work effectively in a team environment.
6. Demonstrate appropriate habits, behaviors and attitudes in professional situations.
7. Define and describe economics specific terminology and concepts.
8. Solve complex economic problems using appropriate tools and techniques.

## • Required Courses (64 credits)

- ECO124: Principles of Economics I - Microeconomics (4 hours)
- ECO225: Principles of Economics II - Macroeconomics (4 hours)
- ACC205: Financial Accounting (4 hours)
- ACC206: Managerial Accounting (2 hours)
- BUS290: Principles of Business Law (2 hours)
- BUS301: Principles of Marketing (4 hours)
- BUS302: Principles of Management (4 hours)
- BUS304: Principles of Finance (4 hours)
- BUS305: Principles of Operations Management (4 hours)
- BUS496: Business Policies (4 hours)
- CMP112: Computational Thinking I (4 hours)
- CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
- ECO306: Microeconomic Theory (4 hours)
- ECO307: Macroeconomic Theory (4 hours)
- ECO314: Econometrics (4 hours)
- ECO343: Money and Banking (4 hours)
- ECO363: International Economics (4 hours)

CMP112 and CMP114 satisfy the Bachelor of Science requirement.

[Business Economics Four Year Plan \(PDF\)](#) | [Business Economics Advising Worksheet \(PDF\)](#)

## • Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

## • The Pioneer Core Program

- Cross-Cultural Component
- Distribution Component
- GE1 and GE2 Courses
- Cross Cultural Development

For a complete list of CCD courses, [click here](#).



## Sample Business Economics Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ECO124	Microeconomics	4
ENG170	Writing Seminar	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		32

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		32

Fall - Year 2		
Course	Course Title	CR
CMP112	Computational Thinking I	4
ECO225	Macroeconomics	4
ELE	Elective	4
GE2	F2/H2/N2/P2	4
Semester Credits		16
Total Credits		48

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		48

Spring - Year 2		
Course	Course Title	CR
ACC206	Managerial Accounting	2
BUS290	Principles of Business Law	2
CCD	Cross Cultural Development	4
CMP114	Computational Thinking II	4
ELE	Elective	4
Semester Credits		16
Total Credits		64

Summer - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		64

Fall - Year 3		
Course	Course Title	CR
BUS301	Principles of Marketing	4
BUS302	Principles of Management	4
BUS304	Principles of Finance	4
BUS305	Principles of Operations Mgmt	4
Semester Credits		16
Total Credits		80

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		80

Spring - Year 3		
Course	Course Title	CR
CCE	Cross Cultural Experience	4
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		96

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		96

Fall - Year 4		
Course	Course Title	CR
ACC100	Personal Finance (suggested)	2
CCS400	Global Perspectives Colloquium	2
ECO306	Microeconomic Theory	4
ECO314	Econometrics	4
ECO343	Money and Banking	4
Semester Credits		16
Total Credits		112

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		112

Spring - Year 4		
Course	Course Title	CR
BUS496	Business Policies	4
ECO307	Macroeconomic Theory	4
ECO363	International Economics	4
ELE	Elective	4
Semester Credits		16
Total Credits		128

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		128

\*\*This four-year plan is for illustrative purposes only and is based out of the 2016-2017 Carroll University Catalog. Please work with a member of the Center for Academic Advising Services staff and your Faculty Advisor to create a unique four-year plan for you.\*\*



## ADVISING WORKSHEET BUSINESS ECONOMICS 2016-17

Name \_\_\_\_\_

ID # \_\_\_\_\_

Faculty Advisor \_\_\_\_\_

### PIONEER CORE

#### Cross-Cultural Component

Course #	Name	Credits	Course	Semester	Grade
CCS100	Cultural Seminar	4	_____	_____	_____
ENG170	Writing Seminar	4	_____	_____	_____
CCD	Cross-Cultural Dvlpmnt	4	_____	_____	_____
CCE	Cross-Cultural Experience 2 to 4	_____	_____	_____	_____
CCS400	Global Persp. Colloquium	2	_____	_____	_____

#### Distribution Component

Course #	Name	Credits	Course	Semester	Grade
GE1	Fine Arts	4	_____	_____	_____
GE1	Humanities	4	_____	_____	_____
GE1	Philosophy/Ethics/Religion	4	_____	_____	_____
GE1	Natural Sciences	4	_____	_____	_____
GE2*	2nd course in one of the GE1 disciplines above	4	_____	_____	_____

\*This course must also be in the same subject category as a GE1.

**Note: Course grades of "F" or "W"**

**do not earn academic credit**

**128 credit hours needed for graduation**

Credit hours earned \_\_\_\_\_

### BUSINESS ECONOMICS MAJOR (64 credit hours)

Course #	Name	Credits	Semester	Grade
ACC205	Financial Accounting (Fall, Spring)	4	_____	_____
ACC206	Managerial Accounting <i>Pre-req: ACC 205</i> (Fall, Spring)	2	_____	_____
BUS290	Principles of Business Law (Fall, Spring)	2	_____	_____
BUS301	Principles Of Marketing <i>Pre-req: Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS302	Principles Of Management <i>Pre-req: Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS304	Principles Of Finance <i>Pre-req: ECO124, ECO225, CMP114 &amp; either ACC310 or ACC206</i> (Fall, Spring)	4	_____	_____
BUS305	Principles Of Operations Mgmt <i>Pre-req: CMP114</i> (Fall, Spring)	4	_____	_____
BUS496	Business Policies <i>Pre-req: BUS301, BUS302, BUS304, and BUS305</i> (Fall, Spring)	4	_____	_____
CMP112	Computational Thinking I <i>Pre-req: MAT 101</i> (Fall, Spring)	4	_____	_____
CMP114	Computational Thinking II <i>Pre-req: CMP 112</i> (Fall, Spring)	4	_____	_____
ECO124	Microeconomics (Fall, Spring)	4	_____	_____
ECO225	Macroeconomics (Fall, Spring)	4	_____	_____
ECO306	Microeconomic Theory <i>Pre-req: ECO124</i> (Fall only)	4	_____	_____
ECO307	Macroeconomic Theory <i>Pre-req: ECO225</i> (Spring only)	4	_____	_____
ECO314	Econometrics <i>Pre-req: CMP114 and either ECO124 or ECO225</i> (Fall only)	4	_____	_____
ECO343	Money and Banking <i>Pre-req: ECO225</i> (Fall only)	4	_____	_____
ECO363	International Economics <i>Pre-req: ECO124 and ECO225</i> (Spring only)	4	_____	_____

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

**Economics Minor (20 credits)**

» Required Courses (16 credits)

» Choose 4 or more credit hours from the following:

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Economics Minor (20 credits)****CONTACT PERSON:**

Dennis Debrecht, Associate Professor (ddebrech@carrollu.edu)

## • Required Courses (16 credits)

- ECO124: Principles of Economics I - Microeconomics (4 hours)
- ECO225: Principles of Economics II - Macroeconomics (4 hours)
- ECO306: Microeconomic Theory (4 hours)
- ECO307: Macroeconomic Theory (4 hours)

## • Choose 4 or more credit hours from the following:

- ECO314: Econometrics (4 hours)
- ECO343: Money and Banking (4 hours)
- ECO363: International Economics (4 hours)

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

**Finance Major (64 credits)**

- » Required Courses (64 credits)
- » Bachelor of Science Requirement
- » The Pioneer Core Program

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Finance Major (64 credits)****PROGRAM ADVISOR:**

Gregory Kuhlemeyer, Professor (gkuhleme@carrollu.edu)

*The Finance major teaches managers how to make the best long-term decisions for their organizations. Students learn how to plan, manage, analyze, interpret and present information with the goal of maximizing the wealth of business owners. A finance major should be good with numbers, a team player, a creative problem solver and an effective communicator.*

**Learning Outcomes for Finance**

- 1.** Define and describe business-related terminology and concepts.
- 2.** Evaluate and formulate effective business policies and strategies.
- 3.** Solve complex business problems using appropriate tools and techniques.
- 4.** Demonstrate multiple effective communication skills.
- 5.** Work effectively in a team environment.
- 6.** Demonstrate appropriate habits, behaviors and attitudes in professional situations.
- 7.** Define and describe finance specific terminology and concepts.
- 8.** Solve complex financial problems using appropriate tools and techniques.

- Required Courses (64 credits)

- ECO124: Principles of Economics I - Microeconomics (4 hours)
- ECO225: Principles of Economics II - Macroeconomics (4 hours)
- ACC205: Financial Accounting (4 hours)
- ACC206: Managerial Accounting (2 hours)
- BUS290: Principles of Business Law (2 hours)
- BUS301: Principles of Marketing (4 hours)
- BUS302: Principles of Management (4 hours)
- BUS304: Principles of Finance (4 hours)
- BUS305: Principles of Operations Management (4 hours)
- BUS321: Careers in Finance (2 hours)
- BUS341: Applied Risk Management (4 hours)
- BUS342: Investment Management (4 hours)
- BUS344: Management of Financial Institutions (4 hours)
- BUS356: Applied Financial Management (4 hours)
- BUS480: Internship in Business (1 TO 12 hours)
- BUS496: Business Policies (4 hours)
- CMP112: Computational Thinking I (4 hours)
- CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)

A minimum of 2 hours in BUS480 is required for the major.

CMP112 and CMP114 satisfy the Bachelor of Science requirement.

[Finance Four Year Plan \(PDF\)](#) | [Finance Advising Worksheet \(PDF\)](#)

- Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program

- Cross-Cultural Component
- Distribution Component
- GE1 and GE2 Courses
- Cross Cultural Development

For a complete list of CCD courses, [click here](#).

## Sample Finance Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ECO124	Microeconomics	4
ENG170	Writing Seminar	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		32

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		32

Fall - Year 2		
Course	Course Title	CR
CMP112	Computational Thinking I	4
ECO225	Macroeconomics	4
ELE	Elective	4
GE2	F2/H2/N2/P2	4
Semester Credits		16
Total Credits		48

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		48

Spring - Year 2		
Course	Course Title	CR
ACC206	Managerial Accounting	2
BUS290	Principles of Business Law	2
CCD	Cross Cultural Development	4
CMP114	Computational Thinking II	4
ELE	Elective	4
Semester Credits		16
Total Credits		64

Summer - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		64

Fall - Year 3		
Course	Course Title	CR
BUS301	Principles of Marketing	4
BUS302	Principles of Management	4
BUS304	Principles of Finance	4
BUS305	Principles of Operations Mgmt	4
Semester Credits		16
Total Credits		80

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		80

Spring - Year 3		
Course	Course Title	CR
CCE	Cross Cultural Experience	4
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		96

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		96

Fall - Year 4		
Course	Course Title	CR
ACC100	Personal Finance (suggested)	2
BUS321	Careers in Finance	2
BUS342	Investment Management	4
BUS344	Mgmt of Financial Institutions	4
BUS480	Internship in Business	2
CCS400	Global Perspectives Colloquium	2
Semester Credits		16
Total Credits		112

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		112

Spring - Year 4		
Course	Course Title	CR
BUS341	Applied Risk Management	4
BUS356	Applied Financial Management	4
BUS496	Business Policies	4
ELE	Elective	4
Semester Credits		16
Total Credits		128

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		128

\*\*This four-year plan is for illustrative purposes only and is based out of the 2016-2017 Carroll University Catalog. Please work with a member of the Center for Academic Advising Services staff and your Faculty Advisor to create a unique four-year plan for you.\*\*



## ADVISING WORKSHEET FINANCE 2016-17

Name \_\_\_\_\_

ID # \_\_\_\_\_

Faculty Advisor \_\_\_\_\_

### PIONEER CORE

#### Cross-Cultural Component

Course #	Name	Credits	Course	Semester	Grade
CCS100	Cultural Seminar	4	_____	_____	_____
ENG170	Writing Seminar	4	_____	_____	_____
CCD	Cross-Cultural Dvlpmnt	4	_____	_____	_____
CCE	Cross-Cultural Experience	2 to 4	_____	_____	_____
CCS400	Global Persp. Colloquium	2	_____	_____	_____

#### Distribution Component

Course	Name	Credits	Course	Semester	Grade
GE1	Fine Arts	4	_____	_____	_____
GE1	Humanities	4	_____	_____	_____
GE1	Philosophy/Ethics/Religion	4	_____	_____	_____
GE1	Natural Sciences	4	_____	_____	_____
GE2*	2nd course in one of the GE1 disciplines above	4	_____	_____	_____

\*This course must also be in the same subject category as a GE1.

**Note: Course grades of "F" or "W"**

**do not earn academic credit**

**128 credit hours needed for graduation**

### FINANCE MAJOR (64 credit hours)

Course #	Name	Credits	Semester	Grade
ACC205	Financial Accounting (Fall, Spring)	4	_____	_____
ACC206	Managerial Accounting <i>Pre-req: ACC 205</i> (Fall, Spring)	2	_____	_____
BUS290	Principles of Business Law (Fall, Spring)	2	_____	_____
BUS301	Principles Of Marketing <i>Pre-req: Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS302	Principles Of Management <i>Pre-req: Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS304	Principles Of Finance <i>Pre-req: ECO124, ECO225, CMP114 and ACC310 or ACC206</i> (Fall, Spring)	4	_____	_____
BUS305	Principles Of Operations Mgmt <i>Pre-req: CMP114</i> (Fall, Spring)	4	_____	_____
BUS496	Business Policies <i>Pre-req: BUS301, BUS302, BUS304, and BUS305</i> (Fall, Spring)	4	_____	_____
CMP112	Computational Thinking I <i>Pre-req: MAT 101</i> (Fall, Spring)	4	_____	_____
CMP114	Computational Thinking II <i>Pre-req: CMP 112</i> (Fall, Spring)	4	_____	_____
ECO124	Microeconomics (Fall, Spring)	4	_____	_____
ECO225	Macroeconomics (Fall, Spring)	4	_____	_____
BUS321	Careers in Finance (Fall only)	2	_____	_____
BUS341	Applied Risk Management <i>Pre-req: BUS304</i> (Spring only)	4	_____	_____
BUS342	Investment Management <i>Pre-req: BUS304</i> (Fall only)	4	_____	_____
BUS344	Management of Financial Institutions <i>Pre-req: BUS304</i> (Fall only)	4	_____	_____
BUS356	Applied Financial Management <i>Pre-req: BUS304</i> (Spring only)	4	_____	_____
BUS480	Business Internship <i>Pre-req: approval of the instructor</i>	1 to 12	_____	_____

*Note: a minimum of 2 credit hours in BUS480 is required for the major*

Credit hours earned \_\_\_\_\_

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

**Finance Minor (16 credits)**

» Required Courses (8 credits)

» Choose 8 or more credit hours from the following:

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Finance Minor (16 credits)****CONTACT PERSON:**

Gregory Kuhlemeyer, Professor (gkuhleme@carrollu.edu)

- Required Courses (8 credits)
  - **BUS101: Introduction to Business (4 hours)**
  - **BUS304: Principles of Finance (4 hours)**
- Choose 8 or more credit hours from the following:
  - **BUS341: Applied Risk Management (4 hours)**
  - **BUS342: Investment Management (4 hours)**
  - **BUS344: Management of Financial Institutions (4 hours)**

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

**Health Care Administration Major (46 credits)**

» Required Courses (46 credits)

» Bachelor of Science Requirement

» The Pioneer Core Program

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Health Care Administration Major (46 credits)****PROGRAM ADVISOR:**Sarah Esveldt, Lecturer ([sesveldt@carrollu.edu](mailto:sesveldt@carrollu.edu))

*Carroll University's Health Care Administration major will prepare students to lead and manage in the contemporary health care market. The HCA program will prepare graduates for entry-level positions in the health care industry. Graduates will have an understanding of the health care delivery system, the factors that influence the health care system, the knowledge to apply health care management concepts, and the skills and abilities that are necessary to be successful in health care management and leadership roles.*

**Learning Outcomes for Health Care Administration**

1. Demonstrate an understanding of management, leadership, and economic theories and practices as they relate to complex, formal health care organizations.
2. Using problem solving skills, demonstrate an understanding and application of financial and reimbursement strategies needed to resolve financial issues unique to health care organizations.
3. Display an understanding and application of various health care administration practices, including organizational management, marketing, human resources, and information management.
4. Demonstrate an understanding and ability to analyze and interpret legal theories, ethical principles and regulatory structures in health care necessary for organizations and governments to serve health care consumers.
5. Develop and enhance, through practical experiences, the ability to collaborate with others to examine, analyze and make recommendations concerning health care organizational issues.

## • Required Courses (46 credits)

- ACC205: Financial Accounting (4 hours)
- BUS101: Introduction to Business (4 hours)
- CMP112: Computational Thinking I (4 hours)
- CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
- COM290: Intro to Health Communication (4 hours)
- HCA100: Health Care Terminology (2 hours)
- HCA150: Introduction to Health Care (4 hours)
- HCA200: Health Care Economics and Policy (4 hours)
- HCA300: Health Care Management (4 hours)
- HCA350: Health Care Law and Ethics (4 hours)
- HCA400: Health Care Financial Management (4 hours)
- HCA450: Health Care Information Management (4 hours)

CMP112 and CMP114 satisfy the Bachelor of Science requirement.

[Health Care Admin. Four Year Plan \(PDF\)](#) | [Health Care Admin. Advising Worksheet \(PDF\)](#)[Health Care Admin. Pre-Physical Therapy Four Year Plan \(PDF\)](#) | [Health Care Admin. Pre-Physical Therapy Advising Worksheet \(PDF\)](#)

## • Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

## • The Pioneer Core Program

- Cross-Cultural Component
- Distribution Component
- GE1 and GE2 Courses
- Cross Cultural Development



## Sample Health Care Administration Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
BUS101	Introduction to Business	4
CCS100	Cultural Seminar	4
ENG170	Writing Seminar	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
HCA100	Health Care Terminology	2
HCA150	Introduction to Health Care	4
Semester Credits		18
Total Credits		34

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		34

Fall - Year 2		
Course	Course Title	CR
CCD	Cross Cultural Development	4
CMP112	Computational Thinking I	4
GE1	F1/H1/N1/P1	4
HCA200	Health Care Economics & Policy	4
Semester Credits		16
Total Credits		50

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		50

Spring - Year 2		
Course	Course Title	CR
CMP114	Computational Thinking II	4
COM290	Intro to Health Communication	4
GE2	F2/H2/N2/P2	4
HCA300	Health Care Management	4
Semester Credits		16
Total Credits		66

Summer - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		66

Fall - Year 3		
Course	Course Title	CR
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
HCA350	Health Care Law & Ethics	4
Semester Credits		16
Total Credits		82

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		82

Spring - Year 3		
Course	Course Title	CR
CCE	Cross Cultural Experience	2
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		14
Total Credits		96

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		96

Fall - Year 4		
Course	Course Title	CR
CCS400	Global Perspectives Colloquium	2
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
HCA400	Health Care Financial Mgmt	4
Semester Credits		18
Total Credits		114

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		114

Spring - Year 4		
Course	Course Title	CR
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
HCA450	Health Care Information Mgmt	4
Semester Credits		16
Total Credits		130

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		130

\*\*This four-year plan is for illustrative purposes only and is based out of the 2016-2017 Carroll University Catalog. Please work with a member of the Center for Academic Advising Services staff and your Faculty Advisor to create a unique four-year plan for you.\*\*



## ADVISING WORKSHEET HEALTH CARE ADMINISTRATION 2016-17

Name \_\_\_\_\_

ID # \_\_\_\_\_

Faculty Advisor \_\_\_\_\_

### PIONEER CORE

#### Cross-Cultural Component

Course #	Name	Credits	Course	Semester	Grade
CCS100	Cultural Seminar	4	_____	_____	_____
ENG170	Writing Seminar	4	_____	_____	_____
CCD	Cross-Cultural Dvlpmnt	4	_____	_____	_____
CCE	Cross-Cultural Experience 2 to 4	_____	_____	_____	_____
CCS400	Global Persp. Colloquium	2	_____	_____	_____

#### Distribution Component

Course	Name	Credits	Course	Semester	Grade
GE1	Fine Arts	4	_____	_____	_____
GE1	Humanities	4	_____	_____	_____
GE1	Philosophy/Ethics/Religion	4	_____	_____	_____
GE1	Natural Sciences	4	_____	_____	_____
GE2*	2nd course in one of the GE1 disciplines above	4	_____	_____	_____

\*This course must also be in the same subject category as a GE1.

**Note: Course grades of "F" or "W"**

**do not earn academic credit**

**128 credit hours needed for graduation**

### HEALTH CARE ADMINISTRATION MAJOR (46 credit hours)

Course #	Name	Credits	Semester	Grade
ACC205	Financial Accounting (Fall, Spring)	4	_____	_____
BUS101	Introduction to Business (Fall, Spring)	4	_____	_____
CMP112	Computational Thinking I <i>Pre-req: MAT 101</i> (Fall, Spring)	4	_____	_____
CMP114	Computational Thinking II <i>Pre-req: CMP 112</i> (Fall, Spring)	4	_____	_____
COM290	Intro to Health Communication (Spring only)	4	_____	_____
HCA100	Health Care Terminology (Spring only)	2	_____	_____
HCA150	Introduction to Health Care (Spring only)	4	_____	_____
HCA200	Health Care Economics and Policy <i>Pre-req: BUS101 and HCA150</i> (Fall only)	4	_____	_____
HCA300	Health Care Management <i>Pre-req: BUS101 and HCA150</i> (Spring only)	4	_____	_____
HCA350	Health Care Law and Ethics <i>Pre-req: BUS101 and HCA150</i> (Fall only)	4	_____	_____
HCA400	Health Care Financial Management <i>Pre-req: ACC205, BUS101 and HCA150</i> (Fall only)	4	_____	_____
HCA450	Health Care Information Management <i>Pre-req: BUS101 and HCA150</i> (Spring only)	4	_____	_____

Credit hours earned \_\_\_\_\_

## Sample Health Care Administration, Pre-Physical Therapy Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
ANP130	Intro to Human Anat & Phys I	4
BUS101	Introduction to Business	4
CCS100	Cultural Seminar	4
ENG170	Writing Seminar	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ANP140	Intro to Human Anat & Phys II	4
GE1	H1 & CCD	4
HCA100	Health Care Terminology	2
HCA150	Intro to Health Care Systems	4
PHY101	Introductory Physics I	4
Semester Credits		18
Total Credits		34

Summer - Year 1		
Course	Course Title	CR
GE1	P1	
Semester Credits		0
Total Credits		34

Fall - Year 2		
Course	Course Title	CR
CHE101	General Chemistry (N1)	4
HCA200	Health Care Economics & Policy	4
PHY102	Introductory Physics II	4
PSY101	Introductory Psychology	4
Semester Credits		16
Total Credits		50

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		50

Spring - Year 2		
Course	Course Title	CR
CHE102	Biological Chemistry	4
CMP112	Computational Thinking I	4
GE1	F1	4
HCA300	Health Care Management	4
Semester Credits		16
Total Credits		66

Summer - Year 2		
Course	Course Title	CR
ACC205	Financial Accounting	4
Semester Credits		4
Total Credits		70

Fall - Year 3		
Course	Course Title	CR
ANP402	Adv Human Anatomy	4
CCE	Cross Cultural Experience	2
CMP114	Computational Thinking II	4
HCA350	Health Care Law & Ethics	4
HCA400	Health Care Financial Mgmt	4
Semester Credits		18
Total Credits		88

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		88

Spring - Year 3		
Course	Course Title	CR
ANP403	Adv Human Physiology	4
CCS400	Global Perspectives Colloquium	2
COM290	Intro to Health Communication	4
GE2	F2/H2/N2/P2	4
HCA450	Health Care Information Mgmt	4
Semester Credits		18
Total Credits		106

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		106

Fall - Year 4		
Course	Course Title	CR
PTH400	Foundations of Prof Practice	3
PTH401	Stat & Research Methods	3
PTH404	Biomechanics	3
PTH406	Exercise Physiology	3
PTH408	Intro to Patient Management	3
Semester Credits		15
Total Credits		121

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		121

Spring - Year 4		
Course	Course Title	CR
PTH405	Neuroscience	3
PTH411	Foundation of Clinical Research	2
PTH412	Tests and Measures	3
PTH414	Adv Kinesiology	3
PTH416	Therapeutic Exercise	4
Semester Credits		15
Total Credits		136

Summer - Year 4		
Course	Course Title	CR
PTH500	Physical Agents	4
PTH501	Adv Patient Management	3
PTH512	Evidence into Practice	2
PTH520	Professional Practice I	2
PTH521	Teaching Lab Practicum	2
PTH525	Systems Development	2
Semester Credits		15
Total Credits		151



## ADVISING WORKSHEET HEALTH CARE ADMINISTRATION – PRE-PHYSICAL THERAPY 2016-17

Name \_\_\_\_\_

ID # \_\_\_\_\_

Faculty Advisor \_\_\_\_\_

### PIONEER CORE

#### Cross-Cultural Component

Course #	Name	Credits	Course	Semester	Grade
CCS100	Cultural Seminar	4	_____	_____	_____
ENG170	Writing Seminar	4	_____	_____	_____
CCD	Cross-Cultural Dvlpmnt	4	_____	_____	_____
CCE	Cross-Cultural Experience	2 to 4	_____	_____	_____
CCS400	Global Persp. Colloquium	2	_____	_____	_____

#### Distribution Component

Course	Name	Credits	Course	Semester	Grade
GE1	Fine Arts	4	_____	_____	_____
GE1	Humanities	4	_____	_____	_____
GE1	Philosophy/Ethics/Religion	4	_____	_____	_____
GE1^	Natural Sciences	4	_____	_____	_____
GE2*	2nd course in one of the GE1 disciplines above	4	_____	_____	_____

^CHE101 fulfills the Natural Science Distribution Component in the Pioneer Core.

\*This course must also be in the same subject category as a GE1.

**Note: Course grades of “F” or “W”**

**do not earn academic credit**

**128 credit hours needed for graduation**

Credit hours earned \_\_\_\_\_

### HEALTH CARE ADMINISTRATION MAJOR (46 credit hours)

Course #	Name	Credits	Semester	Grade
ACC205	Financial Accounting (Fall, Spring)	4	_____	_____
BUS101	Introduction to Business (Fall, Spring)	4	_____	_____
CMP112	Computational Thinking I <i>Pre-req: MAT 101</i> (Fall, Spring)	4	_____	_____
CMP114	Computational Thinking II <i>Pre-req: CMP 112</i> (Fall, Spring)	4	_____	_____
COM290	Intro to Health Communication (Spring only)	4	_____	_____
HCA100	Health Care Terminology (Spring only)	2	_____	_____
HCA150	Introduction to Health Care (Spring only)	4	_____	_____
HCA200	Health Care Economics and Policy <i>Pre-req: BUS101 and HCA150</i> (Fall only)	4	_____	_____
HCA300	Health Care Management <i>Pre-req: BUS101 and HCA150</i> (Spring only)	4	_____	_____
HCA350	Health Care Law and Ethics <i>Pre-req: BUS101 and HCA150</i> (Fall only)	4	_____	_____
HCA400	Health Care Financial Management <i>Pre-req: ACC205, BUS101 and HCA150</i> (Fall only)	4	_____	_____
HCA450	Health Care Information Management <i>Pre-req: BUS101 and HCA150</i> (Spring only)	4	_____	_____
<b><i>The following courses are required as pre-requisites for the Doctor of Physical Therapy:</i></b>				
ANP130	Introduction to Human Anatomy & Physiology I (Fall)	4	_____	_____
ANP140	Intro. to Human Anat. & Phys. II <i>Pre-req: ANP130</i> (Spring)	4	_____	_____
ANP402	Human Anatomy <i>Pre-req: Jr standing; ANP140</i> (Fall)	4	_____	_____
ANP403	Human Phys. <i>Pre-req: Jr standing; ANP140 &amp; CHE 102</i> (Spring)	4	_____	_____
CHE101	General Chemistry (Fall, Spring) Note: fulfills N1 GenEd requirement	4	_____	_____
CHE102	Biological Chemistry <i>Pre-req: CHE101</i> (Spring)	4	_____	_____
PHY101	Introductory Physics I <i>Pre-req: MAT101 or higher</i> (Spring)	4	_____	_____
PHY102	Introductory Physics II <i>Pre-req: PHY101</i> (Fall)	4	_____	_____
PSY101	Introductory Psychology (Fall, Spring)	4	_____	_____

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

**Health Care Administration Minor (22 credits)**

» Required Courses (14 credits)

» Choose two courses from the following:

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Health Care Administration Minor (22 credits)****CONTACT PERSON:**

Sarah Esveldt, Lecturer (sesveldt@carrollu.edu)

## • Required Courses (14 credits)

- BUS101: Introduction to Business (4 hours)
- HCA100: Health Care Terminology (2 hours)
- HCA150: Introduction to Health Care (4 hours)
- HCA300: Health Care Management (4 hours)

## • Choose two courses from the following:

- HCA200: Health Care Economics and Policy (4 hours)
- HCA350: Health Care Law and Ethics (4 hours)
- HCA400: Health Care Financial Management (4 hours)
- HCA450: Health Care Information Management (4 hours)
- COM290: Intro to Health Communication (4 hours)

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

**Management and Leadership Major (64 credits)**

» Required Courses (64 hours)

» Bachelor of Science Requirement

» The Pioneer Core Program

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Management and Leadership Major (64 credits)****PROGRAM ADVISOR:**

Mary Ann Wisniewski, Professor (mwisniew@carrollu.edu)

*A major in Management and Leadership prepares students to work in a variety of organizations, from small businesses, to nonprofit organizations, to multinational companies. Students will develop skills in setting compelling organizational goals and in leading others to effectively and efficiently use resources to achieve those goals. A degree in Management and Leadership can be applied to practically every industry and organization, including department managers, team managers, project managers, to CEOs.*

**Learning Outcomes for Management and Leadership**

1. Define and describe business-related terminology and concepts.
2. Evaluate and formulate effective business policies and strategies.
3. Solve complex business problems using appropriate tools and techniques.
4. Demonstrate multiple effective communication skills.
5. Work effectively in a team environment.
6. Demonstrate appropriate habits, behaviors and attitudes in professional situations.
7. Define and describe management and leadership specific terminology and concepts.
8. Solve complex management and leadership problems using appropriate tools and techniques.

## • Required Courses (64 hours)

- ECO124: Principles of Economics I - Microeconomics (4 hours)
- ECO225: Principles of Economics II - Macroeconomics (4 hours)
- ACC205: Financial Accounting (4 hours)
- ACC206: Managerial Accounting (2 hours)
- BUS265: Human Resource Management (4 hours)
- BUS290: Principles of Business Law (2 hours)
- BUS301: Principles of Marketing (4 hours)
- BUS302: Principles of Management (4 hours)
- BUS304: Principles of Finance (4 hours)
- BUS305: Principles of Operations Management (4 hours)
- BUS479: Consulting Management (4 hours)
- BUS496: Business Policies (4 hours)
- CMP112: Computational Thinking I (4 hours)
- CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
- LEA190: Leadership and Personal Effectiveness (4 hours)
- LEA302: Leadership Theory and Practice (4 hours)
- LEA499: Leading Change (4 hours)

CMP112 and CMP114 satisfy the Bachelor of Science requirement.

[Management and Leadership Four Year Plan \(PDF\)](#) | [Management and Leadership Advising Worksheet \(PDF\)](#)

## • Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

## • The Pioneer Core Program

- Cross-Cultural Component
- Distribution Component
- GE1 and GE2 Courses
- Cross Cultural Development

For a complete list of CCD courses, [click here](#).

## Sample Management and Leadership Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ECO124	Microeconomics	4
ENG170	Writing Seminar	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		32

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		32

Fall - Year 2		
Course	Course Title	CR
CMP112	Computational Thinking I	4
ECO225	Macroeconomics	4
ELE	Elective	4
GE2	F2/H2/N2/P2	4
Semester Credits		16
Total Credits		48

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		48

Spring - Year 2		
Course	Course Title	CR
ACC206	Managerial Accounting	2
BUS290	Principles of Business Law	2
CCD	Cross Cultural Development	4
CMP114	Computational Thinking II	4
ELE	Elective	4
Semester Credits		16
Total Credits		64

Summer - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		64

Fall - Year 3		
Course	Course Title	CR
BUS301	Principles of Marketing	4
BUS302	Principles of Management	4
BUS304	Principles of Finance	4
BUS305	Principles of Operations Mgmt	4
Semester Credits		16
Total Credits		80

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		80

Spring - Year 3		
Course	Course Title	CR
CCE	Cross Cultural Experience	4
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		96

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		96

Fall - Year 4		
Course	Course Title	CR
ACC100	Personal Finance (suggested)	2
BUS360	Career Developmt (suggested)	4
CCS400	Global Perspectives Colloquium	2
LEA190	Leadershp&Pers Effectiveness	4
LEA302	Leadership Theory & Practice	4
Semester Credits		16
Total Credits		112

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		112

Spring - Year 4		
Course	Course Title	CR
BUS265	Human Resource Management	4
BUS479	Consulting Management	4
BUS496	Business Policies	4
LEA499	Leading Change	4
Semester Credits		16
Total Credits		128

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		128

\*\*This four-year plan is for illustrative purposes only and is based out of the 2016-2017 Carroll University Catalog. Please work with a member of the Center for Academic Advising Services staff and your Faculty Advisor to create a unique four-year plan for you.\*\*



## ADVISING WORKSHEET MANAGEMENT AND LEADERSHIP 2016-17

Name \_\_\_\_\_

ID # \_\_\_\_\_

Faculty Advisor \_\_\_\_\_

### PIONEER CORE

#### Cross-Cultural Component

<u>Course #</u>	<u>Name</u>	<u>Credits</u>	<u>Course</u>	<u>Semester</u>	<u>Grade</u>
CCS100	Cultural Seminar	4	_____	_____	_____
ENG170	Writing Seminar	4	_____	_____	_____
CCD	Cross-Cultural Dvlpmnt	4	_____	_____	_____
CCE	Cross-Cultural Experience	2 to 4	_____	_____	_____
CCS400	Global Persp. Colloquium	2	_____	_____	_____

#### Distribution Component

<u>Course #</u>	<u>Name</u>	<u>Credits</u>	<u>Course</u>	<u>Semester</u>	<u>Grade</u>
GE1	Fine Arts	4	_____	_____	_____
GE1	Humanities	4	_____	_____	_____
GE1	Philosophy/Ethics/Religion	4	_____	_____	_____
GE1	Natural Sciences	4	_____	_____	_____
GE2*	2nd course in one of the GE1 disciplines above	4	_____	_____	_____

\*This course must also be in the same subject category as a GE1.

### MANAGEMENT AND LEADERSHIP MAJOR (64 credit hours)

<u>Course #</u>	<u>Name</u>	<u>Credits</u>	<u>Semester</u>	<u>Grade</u>
ACC205	Financial Accounting (Fall, Spring)	4	_____	_____
ACC206	Managerial Accounting <i>Pre-req: ACC 205</i> (Fall, Spring)	2	_____	_____
BUS290	Principles of Business Law (Fall, Spring)	2	_____	_____
BUS301	Principles Of Marketing <i>Pre-req: Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS302	Principles Of Management <i>Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS304	Principles Of Finance <i>Pre-req: ECO124, ECO225, CMP114 and ACC310 or ACC206</i> (Fall, Spring)	4	_____	_____
BUS305	Principles Of Operations Mgmt <i>Pre-req: CMP114</i> (Fall, Spring)	4	_____	_____
BUS496	Business Policies <i>Pre-req: BUS301, BUS302, BUS304, and BUS305</i> (Fall, Spring)	4	_____	_____
CMP112	Computational Thinking I <i>Pre-req: MAT 101</i> (Fall, Spring)	4	_____	_____
CMP114	Computational Thinking II <i>Pre-req: CMP 112</i> (Fall, Spring)	4	_____	_____
ECO124	Microeconomics (Fall, Spring)	4	_____	_____
ECO225	Macroeconomics (Fall, Spring)	4	_____	_____
BUS265	Human Resources Management (Spring only)	4	_____	_____
BUS479	Consulting Management <i>Pre-req: BUS302</i> (Spring only)	4	_____	_____
LEA190	Leadership and Personal Effectiveness (Fall only)	4	_____	_____
LEA302	Leadership Theory and Practice (Fall only)	4	_____	_____
LEA499	Leading Change <i>Pre-req: LEA302</i> (Spring only)	4	_____	_____

Note: Course grades of "F" or "W" do not earn academic credit

128 credit hours needed for graduation

Credit hours earned \_\_\_\_\_



**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

**Management and Leadership Minor (16 credits)**

» Required Courses (8 credits)

» Choose 8 or more credit hours from the following:

Marketing Major (64 credits)

Marketing Minor (16 credits)

**Management and Leadership Minor (16 credits)****CONTACT PERSON:**

Mary Ann Wisniewski, Professor (mwisniew@carrollu.edu)

## • Required Courses (8 credits)

- BUS101: Introduction to Business (4 hours)
- BUS302: Principles of Management (4 hours)

## • Choose 8 or more credit hours from the following:

- BUS265: Human Resource Management (4 hours)
- BUS479: Consulting Management (4 hours)
- LEA190: Leadership and Personal Effectiveness (4 hours)
- LEA302: Leadership Theory and Practice (4 hours)
- LEA499: Leading Change (4 hours)

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

**Marketing Major (64 credits)**

» Required Courses (56 credits)

» Choose 8 credit hours from the following:

» Bachelor of Science Requirement

» The Pioneer Core Program

Marketing Minor (16 credits)

**Marketing Major (64 credits)****PROGRAM ADVISOR:**

Michael Levas, Associate Professor (mlevas@carrollu.edu)

*A Carroll University Marketing major allows students to study all of the functional areas of business and then specialize further within the field of marketing. Students will take courses in business to business marketing, promotion management, and market research as well as additional elective courses in marketing. Students who major in Marketing are prepared for a variety of fulfilling and challenging careers with domestic and international organizations. These organizations need articulate, well-reasoning, effective leaders to help build their brands as they compete in a global environment.*

**Learning Outcomes for Marketing**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Define and describe business-related terminology and concepts.</li> <li>2. Evaluate and formulate effective business policies and strategies.</li> <li>3. Solve complex business problems using appropriate tools and techniques.</li> <li>4. Demonstrate multiple effective communication skills.</li> </ol> | <ol style="list-style-type: none"> <li>5. Work effectively in a team environment.</li> <li>6. Demonstrate appropriate habits, behaviors and attitudes in professional situations.</li> <li>7. Define and describe marketing specific terminology and concepts.</li> <li>8. Solve complex marketing problems using appropriate tools and techniques.</li> </ol> |
|---|--|

## • Required Courses (56 credits)

- ACC205: Financial Accounting (4 hours)
  - ACC206: Managerial Accounting (2 hours)
  - BUS290: Principles of Business Law (2 hours)
  - BUS301: Principles of Marketing (4 hours)
  - BUS302: Principles of Management (4 hours)
  - BUS304: Principles of Finance (4 hours)
  - BUS305: Principles of Operations Management (4 hours)
  - BUS320: Promotion Management (4 hours)
  - BUS327: Business to Business Marketing (4 hours)
  - BUS435: Marketing Research (4 hours)
  - BUS496: Business Policies (4 hours)
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - ECO124: Principles of Economics I - Microeconomics (4 hours)
  - ECO225: Principles of Economics II - Macroeconomics (4 hours)
- Choose 8 credit hours from the following:
- ART258: Visual Communication (4 hours)
  - BUS360: Career Development (4 hours)
  - BUS480: Internship in Business (1 TO 12 hours)
  - COM208: Introduction to Public Relations (4 hours)
  - GRC106: Intro-Communication Technology (2 hours)
  - GRC150: Digital Toolbox - Photoshop/ Illustrator 1 (4 hours)
  - GRC360: Interactive Media (4 hours)
  - PSY228: Consumer Behavior (4 hours)

A maximum of 4 hours in BUS480 can be applied toward the major requirements.

CMP112 and CMP114 satisfy the Bachelor of Science requirement.

[Marketing Four Year Plan \(PDF\)](#) | [Marketing Advising Worksheet \(PDF\)](#).

- Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- [CMP112](#) and either [CMP113](#) or [CMP114](#) or
- [MAT140](#) or higher and [CSC110](#) or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS.  
FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- [The Pioneer Core Program](#)
  - [Cross-Cultural Component](#)
  - [Distribution Component](#)
  - [GE1 and GE2 Courses](#)
  - [Cross Cultural Development](#)

For a complete list of CCD courses, [click here](#).

## Sample Marketing Four-Year Plan

Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ECO124	Microeconomics	4
ENG170	Writing Seminar	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ACC205	Financial Accounting	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
GE1	F1/H1/N1/P1	4
Semester Credits		16
Total Credits		32

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		32

Fall - Year 2		
Course	Course Title	CR
CMP112	Computational Thinking I	4
ECO225	Macroeconomics	4
ELE	Elective	4
GE2	F2/H2/N2/P2	4
Semester Credits		16
Total Credits		48

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		48

Spring - Year 2		
Course	Course Title	CR
ACC206	Managerial Accounting	2
BUS290	Principles of Business Law	2
CCD	Cross Cultural Development	4
CMP114	Computational Thinking II	4
ELE	Elective	4
Semester Credits		16
Total Credits		64

Summer - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		64

Fall - Year 3		
Course	Course Title	CR
BUS301	Principles of Marketing	4
BUS302	Principles of Management	4
BUS304	Principles of Finance	4
BUS305	Principles of Operations Mgmt	4
Semester Credits		16
Total Credits		80

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		80

Spring - Year 3		
Course	Course Title	CR
CCE	Cross Cultural Experience	4
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		96

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		96

Fall - Year 4		
Course	Course Title	CR
ACC100	Personal Finance (suggested)	2
BUS360	Career Developmt (suggested)	4
BUS435	Marketing Research	4
CCS400	Global Perspectives Colloquium	2
MKG ELE	Marketing Elective	4
Semester Credits		16
Total Credits		112

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		112

Spring - Year 4		
Course	Course Title	CR
BUS320	Promotion Management	4
BUS327	Business to Business Mktg	4
BUS496	Business Policies	4
MKG ELE	Marketing Elective	4
Semester Credits		16
Total Credits		128

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		128

\*\*This four-year plan is for illustrative purposes only and is based out of the 2016-2017 Carroll University Catalog. Please work with a member of the Center for Academic Advising Services staff and your Faculty Advisor to create a unique four-year plan for you.\*\*



Name \_\_\_\_\_

ID # \_\_\_\_\_

Faculty Advisor \_\_\_\_\_

### PIONEER CORE

#### Cross-Cultural Component

Course #	Name	Credits	Course	Semester	Grade
CCS100	Cultural Seminar	4	_____	_____	_____
ENG170	Writing Seminar	4	_____	_____	_____
CCD	Cross-Cultural Dvlpmnt	4	_____	_____	_____
CCE	Cross-Cultural Experience	2 to 4	_____	_____	_____
CCS400	Global Persp. Colloquium	2	_____	_____	_____

#### Distribution Component

Course Name	Credits	Course	Semester	Grade
GE1 Fine Arts	4	_____	_____	_____
GE1 Humanities	4	_____	_____	_____
GE1 Philosophy/Ethics/Religion	4	_____	_____	_____
GE1 Natural Sciences	4	_____	_____	_____
GE2* 2nd course in 1 of the GE1 disciplines above	4	_____	_____	_____

\*This course must also be in the same subject category as a GE1.

**Note: Course grades of "F" or "W"**

**do not earn academic credit**

**128 credit hours needed for graduation**

Credit hours earned \_\_\_\_\_

### MARKETING MAJOR (64 credit hours)

Course #	Name	Credits	Semester	Grade
ACC205	Financial Accounting (Fall, Spring)	4	_____	_____
ACC206	Managerial Accounting <i>Pre-req: ACC 205</i> (Fall, Spring)	2	_____	_____
BUS290	Principles of Business Law (Fall, Spring)	2	_____	_____
BUS301	Principles Of Marketing <i>Pre-req: Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS302	Principles Of Management <i>Pre-req: Sophomore standing</i> (Fall, Spring)	4	_____	_____
BUS304	Principles Of Finance <i>Pre-req: ECO124, ECO225, CMP114 and ACC310 or ACC206</i> (Fall, Spring)	4	_____	_____
BUS305	Principles Of Operations Mgmt <i>Pre-req: CMP114</i> (Fall, Spring)	4	_____	_____
BUS496	Business Policies <i>Pre-req: BUS301, BUS302, BUS304, and BUS305</i> (Fall, Spring)	4	_____	_____
CMP112	Computational Thinking I <i>Pre-req: MAT 101</i> (Fall, Spring)	4	_____	_____
CMP114	Computational Thinking II <i>Pre-req: CMP 112</i> (Fall, Spring)	4	_____	_____
ECO124	Microeconomics (Fall, Spring)	4	_____	_____
ECO225	Macroeconomics (Fall, Spring)	4	_____	_____
BUS320	Promotion Management <i>Pre-req: BUS301</i> (Spring only)	4	_____	_____
BUS327	Business to Business Marketing <i>Pre-req: BUS301</i> (Spring only)	4	_____	_____
BUS435	Marketing Research <i>Pre-req: CMP114 &amp; BUS301 (CMP114 can be co-requisite)</i> (Fall only)	4	_____	_____
<b>Choose 8 credit hours from the following:</b>				
ART258	Visual Communication (Fall only)	4	_____	_____
BUS360	Career Management <i>Pre-req: junior standing</i> (Fall only)	4	_____	_____
COM208	Introduction to Public Relations (Spring only)	4	_____	_____
GRC106	Introduction to Communication Technology (Fall, Spring)	2	_____	_____
GRC150	Digital Toolbox - Photoshop/Illustrator 1 (Fall, Spring)	4	_____	_____
GRC360	Interactive Media (Spring only)	4	_____	_____
PSY228	Consumer Behavior <i>Pre-req: PSY101</i> (Spring)	4	_____	_____
BUS480	Internship in Business <i>Pre-req: approval of instructor</i>	1 to 12	_____	_____

*Note: a maximum of 4 credit hours in BUS480 can be applied toward the major*

**Undergraduate**

Accounting Major (80 credits)

Accounting Minor (16 credits)

Business Administration (44 credits)

Business Economics Major (64 credits)

Economics Minor (20 credits)

Finance Major (64 credits)

Finance Minor (16 credits)

Health Care Administration Major (46 credits)

Health Care Administration Minor (22 credits)

Management and Leadership Major (64 credits)

Management and Leadership Minor (16 credits)

Marketing Major (64 credits)

**Marketing Minor (16 credits)**

» Required Courses (8 hours)

» Choose 8 or more credit hours from the following:

**Marketing Minor (16 credits)****CONTACT PERSON:**

Michael Levas, Associate Professor (mlevas@carrollu.edu)

- Required Courses (8 hours)
  - [BUS101: Introduction to Business \(4 hours\)](#)
  - [BUS301: Principles of Marketing \(4 hours\)](#)
- Choose 8 or more credit hours from the following:
  - [BUS320: Promotion Management \(4 hours\)](#)
  - [BUS327: Business to Business Marketing \(4 hours\)](#)
  - [BUS435: Marketing Research \(4 hours\)](#)

Carroll University Catalog > Undergraduate Catalog > Academics > [College of Arts and Sciences](#)

### Academics

Academic Organization

Business, Accounting, and Economics

[College of Arts and Sciences](#)

- » Communication and Sociology
- » Computational and Physical Sciences
- » Education
- » English and Modern Languages
- » History, Political Science and Religious Studies
- » Life Sciences
- » Visual and Performing Arts

College of Health Sciences

Enrichment Programs

Department and Major Codes

Accreditation Information

Academic and Program Policies

Calendar

## College of Arts and Sciences

Dean/Director: Charles Byler, Dean

Telephone: 262-650-4836

Fax: 262-574-2608

Room: Betty Lou Tikalsky House 203

Email: [cbyler@carrollu.edu](mailto:cbyler@carrollu.edu)

## Departments

[Communication and Sociology](#)

[Computational and Physical Sciences](#)

[Education](#)

[English and Modern Languages](#)

[History, Political Science and Religious Studies](#)

[Life Sciences](#)

[Visual and Performing Arts](#)

**College of Arts and Sciences**[Communication and Sociology](#)

» Undergraduate  
Computational and Physical Sciences  
Education  
English and Modern Languages  
History, Political Science and Religious Studies  
Life Sciences  
Visual and Performing Arts

**Department: Communication and Sociology**

Chairperson: Rebecca Imes  
Room: Betty Lou Tikalsky House 200 Email: [rimes@carrollu.edu](mailto:rimes@carrollu.edu)  
Telephone: 262-951-3011 Fax: 262-574-2608

**DEPARTMENT FACULTY**

<u>Name</u>	<u>Title</u>	<u>Area</u>	<u>Email</u>
Jon Gordon	Senior Lecturer in Communication	Communication	<a href="mailto:jgordon@carrollu.edu">jgordon@carrollu.edu</a>
Jennifer Huck	Assistant Professor of Sociology and Criminal Justice	Criminal Justice, Sociology	<a href="mailto:jhuck@carrollu.edu">jhuck@carrollu.edu</a>
Rebecca Imes	Chair and Associate Professor of Communication	Communication	<a href="mailto:rimes@carrollu.edu">rimes@carrollu.edu</a>
Barbara King	Associate Professor of Communication	Communication	<a href="mailto:bking@carrollu.edu">bking@carrollu.edu</a>
Camie Morris	Lecturer of Sociology and Criminal Justice	Criminal Justice, Sociology	<a href="mailto:csmorris@carrollu.edu">csmorris@carrollu.edu</a>
Aaron Routh	Lecturer of Sociology	Sociology	<a href="mailto:arouth@carrollu.edu">arouth@carrollu.edu</a>
Keith Zukas	Assistant Professor of Communication	Communication	<a href="mailto:kzukas@carrollu.edu">kzukas@carrollu.edu</a>

**PROGRAMS OF STUDY****Majors**

[Communication \(40 credits\)](#)  
[Criminal Justice \(48 credits\)](#)  
[Sociology \(40 credits\)](#)

**Minors**

[Criminal Justice \(24 credits\)](#)  
[Liberal Arts Communication \(20 credits\)](#)  
[Secondary Education Speech Communication \(21 credits\)](#)  
[Sociology \(20 credits\)](#)  
[Sociology of Sustainability \(24 credits\)](#)

**Programs**

[Undergraduate Communication](#)  
[Criminal Justice](#)  
[Sociology](#)



**Communication and Sociology**
**Undergraduate**

- » Communication
- » Criminal Justice
- » Sociology

**Program: Undergraduate**

College of Arts and Sciences  
Department: Communication and Sociology

- **Communication**

**PROGRAM FACULTY:**

Jon Gordon, Senior Lecturer in Communication (jgordon@carrollu.edu)

Rebecca Imes, Chair and Associate Professor of Communication (rimes@carrollu.edu)

Barbara King, Associate Professor of Communication (bking@carrollu.edu)

Keith Zukas, Assistant Professor of Communication (kzukas@carrollu.edu)

The Communication program offers a major in communication, as well as minors in liberal arts communication and secondary education speech communication. The goal of the program is to develop graduates who possess communication competence, in both theory and practice.

The communication major prepares students for careers in journalism, public relations, advertising, teaching, management, human resources and for advanced education in graduate school. The curriculum follows a sequence for student development. As freshmen, students learn the principles of, and have experiences in, various contexts of communication. They also become familiar with the methods of communication research (100-level courses). As sophomores, students become acquainted with specialized subject matters and hone skills in research, writing and critical thinking (200-level courses). As juniors, students engage in deeper exploration of theoretical and ethical perspectives (300-level courses). As seniors, students participate in advanced research and work-oriented experiences.

**Suggested Tracks in the Communication Major**

Journalism: COM145, COM237, COM255, COM275, COM278, COM350

Public Relations: COM145, COM203, COM208, COM317, COM350

Relational: COM200, COM202, COM230, COM241, COM290, COM319

**Learning Outcomes for Communication**

Upon successful completion of major requirements, students are expected to demonstrate:

1. An understanding of the theories and principles of human communication that will facilitate their professional and personal effectiveness.
2. Skill in responsible and sensitive communication with diverse others.
3. The ability to conduct systematic inquiry skillfully.
4. The ability to develop and convey oral and written messages effectively.

- **Communication Major (40 credits)**

- Core Courses
  - COM101: Principles of Communication (4 hours)
  - COM150: Research Methodology (4 hours)
  - COM207: Intercultural Communication (4 hours)
  - COM499: Senior Capstone Seminar (4 hours)

- **Communication Major (B.A.) (40 credit hours)**

- Core courses plus four additional 4-credit 100- or 200-level courses in Communication
- Two of the following 300-level courses in Communication
  - COM317: Communication Criticism (4 hours)
  - COM319: Communication Theory (4 hours)
  - COM350: Communication Law (4 hours)
  - COM370: Communication Technology and Society (4 hours)
- Completion of a Modern Language through 202

*For primary majors, this Modern Language requirement is in addition to the minimal Bachelor of Arts language requirement.*

- Bachelor of Arts Requirement

**Bachelor of Arts Requirement**

The requirements for a Bachelor of Arts are:

- Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.

- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- **MAT106** or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- **Communication Major (B.S.) (40 credit hours)**
  - Core courses plus four additional 4-credit 100- or 200-level courses in Communication
  - Two of the following 300-level courses in Communication
    - **COM317: Communication Criticism (4 hours)**
    - **COM319: Communication Theory (4 hours)**
    - **COM350: Communication Law (4 hours)**
    - **COM370: Communication Technology and Society (4 hours)**
  - **CMP112: Computational Thinking I (4 hours)**
  - **CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)**
  - Bachelor of Science Requirement

#### **Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- **The Pioneer Core Program**
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- **Pre-Physical Therapy/Communication Major 4 year plan**

[Click here](#) for a four year plan with a major in Communication.

  - Courses required to complete a 4 year Pre-Physical Therapy Program
    - **ANP130: Introduction to Human Anatomy and Physiology I (4 hours)**  
AND -**ANP130L: Intro to Human Anat and Phys I Lab**
    - **ANP140: Introduction to Human Anatomy and Physiology II (4 hours)**  
AND -**ANP140L: Intro to Human Anat and Phys II Lab**
    - **ANP402: Human Anatomy (4 hours)**  
AND -**ANP402L: Human Anatomy Laboratory**
    - **ANP403: Human Physiology (4 hours)**  
AND -**ANP403L: Human Physiology Laboratory**
    - **CHE101: General Chemistry (4 hours)**  
AND -**CHE101L: General Chemistry Laboratory**
    - **CHE102: Biological Chemistry (4 hours)**  
AND -**CHE102L: Biological Chemistry Laboratory**
    - **CMP112: Computational Thinking I (4 hours)**
    - **CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)**
    - **PHY101: Introductory Physics I (4 hours)**  
AND -**PHY101L: Introductory Physics Laboratory**
    - **PHY102: Introductory Physics II (4 hours)**  
AND -**PHY102L: Introductory Physics Laboratory**
    - **PSY101: Introductory Psychology (4 hours)**
  - **Liberal Arts Communication Minor**
    - **COM101: Principles of Communication (4 hours)**
    - Three elective four-credit courses in Communication
    - One of the following:
      - **COM317: Communication Criticism (4 hours)**
      - **COM319: Communication Theory (4 hours)**
      - **COM350: Communication Law (4 hours)**
      - **COM370: Communication Technology and Society (4 hours)**
  - **Secondary Education Speech Communication Minor**
    - **COM101: Principles of Communication (4 hours)**
    - **COM111: Debate and Forensic Activities (1 hours)**
    - **COM200: Interpersonal Communication (4 hours)**  
OR -**COM202: Small Group Communication (4 hours)**
    - **COM317: Communication Criticism (4 hours)**
    - **COM319: Communication Theory (4 hours)**
    - Plus one elective four-credit course in Communication
  - **Courses offered by the program:**
    - **COM101: Principles of Communication (4 hours)**
    - **COM111: Debate and Forensic Activities (1 hours)**
    - **COM145: Introduction to Mass Communication (4 hours)**
    - **COM150: Research Methodology (4 hours)**
    - **COM200: Interpersonal Communication (4 hours)**
    - **COM201: Presentational Speaking (4 hours)**
    - **COM202: Small Group Communication (4 hours)**
    - **COM203: Advertising (4 hours)**
    - **COM207: Intercultural Communication (4 hours)**
    - **COM208: Introduction to Public Relations (4 hours)**
    - **COM227: Technical Writing in Organizations (4 hours)**

- COM230: Organizational Communication (4 hours)
- COM237: Advanced Newswriting and Reporting (4 hours)
- COM241: Communication and Conflict (4 hours)
- COM255: Digital Journalism (4 hours)
- COM275: Feature Writing (4 hours)
- COM278: Broadcast News Reporting (4 hours)
- COM290: Intro to Health Communication (4 hours)
- COM290H: Intro to Health Communication (4 hours)
- COM291: Topics in Communication (1 TO 4 hours)
- COM296: Research in Communication (1 TO 4 hours)
- COM298: Indep Study in Communication (1 TO 4 hours)
- COM317: Communication Criticism (4 hours)
- COM319: Communication Theory (4 hours)
- COM350: Communication Law (4 hours)
- COM370: Communication Technology and Society (4 hours)
- COM380: Internship in Communication (1 TO 4 hours)
- COM383: Prior Work Experience in Comm (1 TO 4 hours)
- COM391: Topics in Communication (4 hours)
- COM396: Research in Communication (1 TO 4 hours)
- COM398: Indep Study in Communication (1 TO 4 hours)
- COM480: Internship in Communication (1 TO 4 hours)
- COM483: Prior Work Experience in Comm (1 TO 4 hours)
- COM499: Senior Capstone Seminar (4 hours)

- **Criminal Justice**

- **Criminal Justice Major (48 credit hours)**

#### **Criminal Justice Major**

Jennifer L. Huck Assistant Professor of Sociology and Criminal Justice

Camie Morris Lecturer of Sociology and Criminal Justice

Aaron Routhe Lecturer of Sociology

**PROGRAM ADVISORS:**

Jennifer Huck (jhuck@carrollu.edu)

Camie Morris (csmorris@carrollu.edu)

The criminal justice major is designed to meet the needs of students considering a career in the criminal justice system, including law enforcement, law and the courts and corrections. The major has an interdisciplinary liberal arts focus, emphasizing social science knowledge as well as basic communication and intellectual skills. We offer courses that help students understand the structure and philosophy of the American criminal justice system including the dimensions and causes of crime and delinquency, theories of crime prevention and control, the history, nature and theories of law enforcement, the basis and operation of criminal courts, and the philosophies and practices of various correctional institutions and programs, including corrections in the community.

#### **Learning Outcomes for Criminal Justice**

Students successfully completing the major are expected to:

1. Demonstrate an understanding of the structure, philosophy and administration of the criminal justice system and its components of law enforcement, courts, and corrections.
2. Describe and apply criminological theory to understand why individuals engage in crime, how criminals are created, and how policies connect to theoretical underpinnings.
3. Utilize and evaluate appropriate research and analytical methods in criminal justice.
4. Demonstrate the ability to develop and convey oral and written messages effectively in a professional manner.

- Core Courses
  - SOC102: Sociology of Social Problems (4 hours)
  - SOC103: Introduction to Criminal Justice (4 hours)
  - SOC211: Juvenile Delinquency (4 hours)
  - SOC212: Criminology (4 hours)
  - SOC311: Methods of Social Research (4 hours)
  - SOC340: Victims and Victimology (4 hours)
  - SOC499: Capstone - What works in criminal justice policy (2 hours)
- Three electives from the following:
  - SOC203: Criminal Procedure, Evidence and Investigation (4 hours)
  - SOC204: Introduction to Criminal Law (4 hours)
  - SOC213: Race and Ethnicity Studies in Criminal Justice (4 hours)
  - SOC220: Police in Society (4 hours)
  - SOC307: Corrections in American Society (4 hours)
  - SOC481: Internship in Criminal Justice (4 hours)
- Required Support Courses
  - IDS200: Career Exploration and Preparation in the Humanities and Social Sciences (2 hours)
  - POL141: Intro to American Politics (4 hours)
  - ENG199: Reading and Writing in the Sciences (4 hours)
- Bachelor of Science Requirement

#### **Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Criminal Justice Minor

#### Criminal Justice Minor

- Core Courses
  - SOC103: Introduction to Criminal Justice (4 hours)
  - SOC212: Criminology (4 hours)
  - ENG199: Reading and Writing in the Sciences (4 hours)
- Three elective courses from among the following:
  - SOC203: Criminal Procedure, Evidence and Investigation (4 hours)
  - SOC204: Introduction to Criminal Law (4 hours)
  - SOC211: Juvenile Delinquency (4 hours)
  - SOC213: Race and Ethnicity Studies in Criminal Justice (4 hours)
  - SOC220: Police in Society (4 hours)
  - SOC307: Corrections in American Society (4 hours)
  - SOC340: Victims and Victimology (4 hours)

- Sociology

<b>Jennifer L. Huck</b>	<b>Assistant Professor of Sociology and Criminal Justice</b>
<b>Camie Morris</b>	<b>Lecturer of Sociology and Criminal Justice</b>
<b>Aaron Routhe</b>	<b>Lecturer of Sociology</b>

Program Advisor

Aaron Routhe ([arouthe@carrollu.edu](mailto:arouthe@carrollu.edu))

The Sociology Program offers majors in criminal justice and sociology, as well as minors in criminal justice, sociology, and sustainability.

- Sociology Major

#### Learning Outcomes for Sociology

Students successfully completing the major are expected to:

1. Demonstrate an understanding of the variety and diversity of societal/cultural phenomena addressed by the field of sociology.
2. Describe and apply sociological concepts, research methods, and theoretical perspectives to describe how societal/cultural forces shape individual's personal experiences.
3. Demonstrate the ability to develop and convey oral and written messages effectively in a professional manner.

#### Suggested Tracks in the Sociology Major:

Students select from the courses below based on vocational interests and career goals.

Sustainability: SOC 102, SOC 202, SOC 217, SOC 301, SOC 302, SOC 390

Social Work: SOC 102, SOC 130, SOC 213, SOC 215, SOC 217, SOC 301, SOC 302, SOC 305, SOC 318

Community Development: SOC 102, SOC 110, SOC 213, SOC 217, SOC 301, SOC 302, SOC 318

- Core Courses
  - SOC101: Introduction to Sociology (4 hours)
  - SOC308: Sociological Theory (4 hours)
  - SOC311: Methods of Social Research (4 hours)
  - SOC399: Capstone in Sociology (4 hours)
- Sociology Major (B.S.) (40 credit hours)
  - Core Courses
  - Plus four additional 4-credit elective 100- or 200-level courses in Sociology
  - And two 4-credit elective 300-level (non-Core Major) in Sociology
  - Bachelor of Science Requirement
- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Sociology Minors
  - Sociology Minor (5 courses - 20 credit hours)

- SOC101: Introduction to Sociology (4 hours)
- SOC308: Sociological Theory (4 hours)  
OR -SOC311: Methods of Social Research (4 hours)
- Plus three additional 4-credit elective 100-, 200-, or 300-level courses in Sociology
  
- Sociology of Sustainability Minor  
See list of 6 required courses below:
  - SOC101: Introduction to Sociology (4 hours)
  - SOC202: Society and Ecology (4 hours)  
AND -SOC202L: Society and Ecology Laboratory
  - SOC302: Complex Organizations and Work Life (4 hours)
  - SOC308: Sociological Theory (4 hours)  
OR -SOC311: Methods of Social Research (4 hours)
  - ENV120: Conservation and Environmental Improvement (4 hours)  
AND -ENV120L: Conservation and Environmental Improvement Laboratory
  - ENV222: Environmental Sustainability (4 hours)
  
- Courses offered by the program:
  - SOC101: Introduction to Sociology (4 hours)
  - SOC102: Sociology of Social Problems (4 hours)
  - SOC102H: Sociology of Social Problems (4 hours)
  - SOC103: Introduction to Criminal Justice (4 hours)
  - SOC110: Cultural Anthropology (4 hours)
  - SOC130: Culture and Crime (4 hours)
  - SOC202: Society and Ecology (4 hours)
  - SOC202L: Society and Ecology Laboratory
  - SOC203: Criminal Procedure, Evidence and Investigation (4 hours)
  - SOC204: Introduction to Criminal Law (4 hours)
  - SOC211: Juvenile Delinquency (4 hours)
  - SOC212: Criminology (4 hours)
  - SOC213: Race and Ethnicity Studies in Criminal Justice (4 hours)
  - SOC215: Social Gerontology (4 hours)
  - SOC217: Social Psychology (4 hours)
  - SOC220: Police in Society (4 hours)
  - SOC291: Special Topics in Sociology or Criminal Justice (4 hours)
  - SOC296: Reading and Research in Sociology (1 TO 3 hours)
  - SOC298: Independent Study in Sociology (4 hours)
  - SOC301: Social Change and the Future of Society (4 hours)
  - SOC302: Complex Organizations and Work Life (4 hours)
  - SOC305: Marriage & Family-Contmp Society (4 hours)
  - SOC307: Corrections in American Society (4 hours)
  - SOC308: Sociological Theory (4 hours)
  - SOC311: Methods of Social Research (4 hours)
  - SOC318: Sociology of Sex Roles (4 hours)
  - SOC380: Internship in Applied Sociology (4 hours)
  - SOC390: Sustainability Field Project (2 to 4 credits hours)
  - SOC391: Special Topics in Sociology (4 hours)
  - SOC396: Reading and Research in Sociology (1 TO 3 hours)
  - SOC398: Independent Study in Sociology (4 hours)
  - SOC399: Capstone in Sociology (4 hours)
  - SOC481: Internship in Criminal Justice (4 hours)
  - SOC499: Capstone - What works in criminal justice policy (2 hours)

## Communication Pre-PT

FALL-1			SPRING-1			SUMMER-1		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
CCS100	CULTURAL SEMINAR	4	PHY101	INTRO PHYSICS I	4	GE1	GENERAL EDUCATION DISTR I	4
COM101	PRINCIPLES OF COMMUNICATION	4	ANP140	INTRO A & P II	4	GE1	GENERAL EDUCATION DISTR I	4
ENG170	WRITING SEMINAR	4	COM E	ELECTIVE AT 100 OR 200 LEVEL	4			0
ANP130	INTRO A & P I	4	COM150	RESEARCH METHODOLOGY	4			0
TOT		16	TOT		16	TOT		8
<b>CUM</b>		<b>16</b>	<b>CUM</b>		<b>32</b>	<b>CUM</b>		<b>40</b>
FALL-2			SPRING-2			SUMMER-2		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
CHE101	GENERAL CHEMISTRY I	4	CHE102	GENERAL CHEMISTRY II	4	CMP112	COMPUTATIONAL THINKING I	4
PHY 102	INTRO PHYSICS II	4	GE1	GENERAL EDUCATION DISTR I	4			0
COM207	INTERCULTURAL COMMUNICATION	4	COM E	ELECTIVE AT 100 OR 200 LEVEL	4			0
COM E	ELECTIVE AT 100 OR 200 LEVEL	4	PSY101	INTRODUCTORY PSYCHOLOGY	4			0
TOT		16	TOT		16	TOT		4
<b>CUM</b>		<b>56</b>	<b>CUM</b>		<b>72</b>	<b>CUM</b>		<b>76</b>
FALL-3			SPRING-3			SUMMER-3		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
ANP402	ADV. ANATOMY	4	ANP403	ADV. PHYSIOLOGY	4			0
COM3__	ELECTIVE AT 300 LEVEL	4	COM E	ELECTIVE AT 100 OR 200 LEVEL	4			0
GE2/CCD	GENERAL EDUCATION DISTR 2 (CROSS-CULT DE	4	COM3__	ELECTIVE AT 300 LEVEL	4			0
COM499	SENIOR CAPSTONE SEMINAR	4	CMP114	COMPUTATIONAL THINKING II	4			0
		0	CCS300	CROSS CULTURAL EXPERIENCE	2			0
TOT		16	TOT		18	TOT		0
<b>CUM</b>		<b>92</b>	<b>CUM</b>		<b>110</b>	<b>CUM</b>		<b>110</b>
FALL-4			SPRING-4			SUMMER-4		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH400	FOUNDATIONS OF PROF. PRACTICE	3	CCS400	GLOBAL PERSPECTIVE COLLOQUIIUM	2	PTH 500	PHYSICAL AGENTS	4
PTH401	STATISTICAL & RESEARCH METHODS	3	PTH405	NEUROSCIENCE	3	PTH 501	ADVANCED PATIENT MANAGEM	3
PTH404	BIOMECHANICS	3	PTH411	FOUNDATIONS OF CLINICAL RESEARC	2	PTH 512	EVIDENCE INTO PRACTICE	2
PTH406	EXERCISE PHYSIOLOGY	3	PTH412	TESTS AND MEASURES	3	PTH 520	PROFESSIONAL PRACTICE I	2
PTH408	INTRODUCTION TO PATIENT MANAGEMENT	3	PTH414	ADVANCED KINESIOLOGY	3	PTH 521	TEACHING LABORATORY PRACTI	2
		0	PTH416	THERAPEUTIC EXERCISE	4	PTH 525	SYSTEMS DEVELOPMENT	2
TOT		15	TOT		17	TOT		15
<b>CUM</b>		<b>125</b>	<b>CUM</b>		<b>142</b>	<b>CUM</b>		<b>157</b>
FALL-5			SPRING-5			SUMMER-5		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 507	ORTHOPEDICS I	2	PTH 506	MOTOR CONTROL	4	PTH 611	CLINICAL INTERNSHIP II (12 WKS	12
PTH 509	INTRODUCTION TO PHARMACOLOGY	2	PTH 508	GENERAL MEDICINE I	4			0
PTH 515	CLINICAL INTERNSHIP I (FINAL 7 WKS)	7	PTH 517	ORTHOPEDICS II	4			0
PTH 516	HUMAN MOTOR LEARNING (FINAL 7 WKS)	2	PTH 522	EVIDENCE BASED DECISION MAKING	2			0
PTH 535	APPLIED HUMAN BEHAVIOR (ENTIRE SEMESTER)	1	PTH 530	PROFESSIONAL PRACTICE II	2			0
		0	PTH 531	TEACHING LABORATORY PRACTICUM	2			0
		0						0
TOT		14	TOT		18	TOT		12
<b>CUM</b>		<b>171</b>	<b>CUM</b>		<b>189</b>	<b>CUM</b>		<b>201</b>
FALL-6			SPRING-6			SUMMER-6		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 606	NEUROLOGICAL SYSTEM DISORDERS	4	PTH614	CLINICAL INTERNSHIP III (16 WKS)	16			0
PTH 607	ORTHOPEDICS III	3						0
PTH 608	GENERAL MEDICINE II	4			0			0
PTH 620	PROFESSIONAL PRACTICE III	2			0			0
PTH 621	TEACHING LABORATORY PRACTICUM III	2			0			0
PTH 635	PEDIATRIC CARE	2			0			0
					0			0
					0			0
TOT		17	TOT		16			0
<b>CUM</b>		<b>218</b>	<b>CUM</b>		<b>234</b>	<b>CUM</b>		<b>234</b>

**College of Arts and Sciences**

Communication and Sociology

**Computational and Physical Sciences**

» Undergraduate Education

English and Modern Languages

History, Political Science and Religious Studies

Life Sciences

Visual and Performing Arts

**Department: Computational and Physical Sciences**

Chairperson: Kevin McMahon

Room: Lowry 215      Email: [kmcmahon@carrollu.edu](mailto:kmcmahon@carrollu.edu)

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**Programs****Undergraduate**

Actuarial Sciences

Applied Physics/Engineering Dual Degree Program

Aviation Science Minor

Chemistry and Biochemistry

Computer Science and Information Technology

Computer Science Dual Degree Program

Mathematics

Applied Physics

**Computational and  
Physical Sciences**
**Undergraduate**

- » Actuarial Sciences
- » Applied  
Physics/Engineering Dual  
Degree Program
- » Aviation Science Minor
- » Chemistry and  
Biochemistry
- » Computer Science and  
Information Technology
- » Computer Science Dual  
Degree Program
- » Mathematics
- » Applied Physics

**Program: Undergraduate**

College of Arts and Sciences  
Department: Computational and Physical Sciences

- **Actuarial Sciences**

**John Symms Associate Professor of Mathematics**

Broadly speaking, actuaries are professionals who analyze financial risks of future events. Trained in mathematics, statistics, economics and finance, actuaries quantify these risks by building and evaluating mathematical models. Such analyses are essential for the success of businesses in areas such as insurance, investment, and employee benefits. The Carroll University Actuarial Sciences Major gives students a broad and in-depth background in these core disciplines in preparation for entry into the actuarial sciences profession.

Carroll University has actuarial science internship programs with Northwestern Mutual, Assurant, Milliman, and Oliver-Wyman. Each year, representatives select interns from among Carroll University Actuarial Science majors for full-time (or part-time) paid internships. Selected student interns receive an authentic experience in the actuary profession while earning Carroll University credit. The full-time internships also include 100 hours of paid study time for the intern's next actuarial sciences exam.

**Learning Outcomes for Actuarial Science**

Students majoring in actuarial science are expected to:

1. Develop an understanding of the actuarial profession, what actuaries do, and how they do it.
2. Develop a knowledge base and proficiency in the core subjects needed for entry into the profession.
3. Develop an appreciation for the linkages between these core subjects.
4. Develop the critical and analytical thinking skills necessary for success in the profession.
5. Develop the communication skills that are essential in the business environment.
6. Develop the learning skills necessary for continued success in the profession.

- Actuarial Sciences Major (72credits) Bachelor of Science
  - ACC205: Financial Accounting (4 hours)
  - ACC206: Managerial Accounting (2 hours)
  - ASC301: Financial Mathematics (4 hours)
  - ASC302: Probability (4 hours)
  - ASC401: Financial Economics (4 hours)
  - ASC402: Life Contingencies (4 hours)
  - BUS304: Principles of Finance (4 hours)
  - ECO124: Principles of Economics I - Microeconomics (4 hours)
  - ECO225: Principles of Economics II - Macroeconomics (4 hours)
  - MAT160: Calculus I (4 hours)
  - MAT161: Calculus II (4 hours)
  - MAT207: Calculus III (4 hours)
  - MAT208: Linear Algebra (4 hours)
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
- Required Support Courses (Required for all majors)
  - CSC110: Problem Solving through Programming (4 hours)
  - CSC211: Database Web Creation and Networks (4 hours)
- Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Actuarial Science Minor

**Learning Outcomes and Assessment**

Students minoring in Actuarial Science are expected to:

1. Develop an understanding of the actuarial profession, what actuaries do, and how they do it.
2. Develop a knowledge base and proficiency in the core subjects needed for entry into the profession.



3. Develop an appreciation for the linkages between these core subjects.
4. Develop the critical and analytical thinking skills necessary for success in the profession.
5. Develop the communication skills that are essential in the business environment.
6. Develop the learning skills necessary for continued success in the profession.

- ASC301: Financial Mathematics (4 hours)
- ASC302: Probability (4 hours)
- ECO124: Principles of Economics I - Microeconomics (4 hours)
- ECO225: Principles of Economics II - Macroeconomics (4 hours)
- MAT160: Calculus I (4 hours)  
AND -MAT160L: Calculus I - Laboratory
- MAT161: Calculus II (4 hours)  
AND -MAT161L: Calculus II - Laboratory
- MAT207: Calculus III (4 hours)
- Courses offered by the program:
  - ASC301: Financial Mathematics (4 hours)
  - ASC302: Probability (4 hours)
  - ASC380: Internship in Actuarial Science (4 TO 16 hours)
  - ASC401: Financial Economics (4 hours)
  - ASC402: Life Contingencies (4 hours)
  - ASC480: Internship in Actuarial Science (4 TO 16 hours)

- **Applied Physics/Engineering Dual Degree Program**

**Greg Gabrielsen**

**Senior Lecturer**

**Scott Greene**

**Lecturer**

**Tate Wilson**

**Senior Lecturer**

Carroll University, the University of Wisconsin Platteville and the University of Wisconsin Milwaukee offer an inter-university program that allows students to earn two degrees: a B.S. in Applied Physics from Carroll University, and a B.S. in Engineering from the UW-Platteville or UW-Milwaukee. There is also an option to earn a B.S. in Applied Physics from Carroll University and an M.S. in Engineering from UW- Milwaukee. The Carroll University portion of these 3+2 programs consists of an intensive integrated experience in general engineering, physical science, applied mathematics, computation, and liberal studies. Upon completing the 3 year program at Carroll University, students transfer to the UW-Platteville or UW-Milwaukee for 2 years to complete an engineering degree in any one of the following disciplines: Civil Engineering, Electrical Engineering, Engineering Physics, Industrial Engineering, Mechanical Engineering, or Materials Science. Students receive an Applied Physics degree from Carroll University after the successful completion of their first year at WUP or UWM.

#### Learning Outcomes for Applied Physics/Engineering

1. Prepare students to successfully complete an intensive 2-year engineering curriculum at UW-Platteville or UW-Milwaukee.
2. Introduce students to the engineering profession, including engineering problem solving, judgment and practice.
3. Begin development of student awareness of the impact of their work on society, locally, nationally and globally.

- Core Courses
  - CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory
  - CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
  - CSC110: Problem Solving through Programming (4 hours)
  - GEN100: Engineering Seminar I (1 hours)  
AND -GEN101: Engineering Seminar II (1 hours)
  - GEN105: Engineering Graphics (4 hours)
  - GEN210: Statics and Dynamics (4 hours)
  - GEN310: Strengths of Materials (4 hours)
  - GEN320: Advanced Circuits and Electronics (2 hours)  
AND -GEN320L: Advanced Circuits and Electronics Laboratory
  - MAT215: Engineering Mathematics I (4 hours)
  - MAT216: Engineering Mathematics II (4 hours)
  - MAT160: Calculus I (4 hours)
  - MAT161: Calculus II (4 hours)
  - MAT207: Calculus III (4 hours)
  - PHY203: General Physics I (4 hours)  
AND -PHY203L: General Physics I Laboratory
  - PHY204: General Physics II (4 hours)  
AND -PHY204L: General Physics II Laboratory
  - PHY303: Modern Physics (4 hours)  
AND -PHY303L: Modern Physics Laboratory
  - PHY304: Classical Mechanics (4 hours)  
AND -PHY304L: Classical Mechanics Laboratory
  - PHY320: Thermodynamics (4 hours)
- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program

- Cross-Cultural Component
- Distribution Component
- GE1 and GE2 Courses
- Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Courses offered by the program:
  - GEN100: Engineering Seminar I (1 hours)
  - GEN101: Engineering Seminar II (1 hours)
  - GEN105: Engineering Graphics (4 hours)
  - GEN210: Statics and Dynamics (4 hours)
  - GEN310: Strengths of Materials (4 hours)
  - GEN320: Advanced Circuits and Electronics (2 hours)
  - GEN320L: Advanced Circuits and Electronics Laboratory
  - GEN380: Engineering Internship (4 hours)
- Aviation Science Minor

#### Program Mission

The aviation minor is designed to offer opportunities for our students to:

- Understand the historical development of aviation, current trends, economic importance, and career opportunities.
- Gain an in-depth understanding of aviation principles, advanced flight systems, and navigational concepts.
- Gain an understanding of meteorology, performance factors, and decision-making as they relate to aviation.
- Have the option to:
  - Complete the required "ground school" component necessary for endorsement to sit the FAA Knowledge and Flight tests.
  - Gain practical experience to test for a private pilot certificate (VFR), and/or become instrument rated (IFR).

#### Program Goals

- Define aviation concepts.
- To be aware of the historical roots and development of aviation.
- Make students aware of regulatory and safety issues in aviation.
- Define professional and ethical standards required in aviation careers.
- For the optional flight training laboratories:
  - Train students to operate single and/or multi-engine aircraft.
  - Help students develop cognitive reasoning skills to solve technical issues, and resolve issues prior to, and during, flight.
  - Make students aware of the need to continually upgrade technical and regulatory knowledge to remain "current" in the profession.
  - To learn the operational limits of the pilot's certificate.

#### Program Learning Outcomes

1. Understand basic definitions, concepts and applications of aeronautical knowledge.
2. Know the historical landmarks in the development of manned flight.
3. Be able to describe the basic elements of meteorology including insolation, temperature, winds, and moisture.
4. Understand the processes that result in natural phenomena like weather, climate, climate change, earthquakes, and landforms.
5. Understand and be able to explain how the relationship between the earth and the sun directly affects seasonal and geographic temperature patterns and global energy balance
6. Understand and be able to explain how air masses, fronts, and upper level flow drive current weather conditions
7. Be able to analyze atmospheric and other geographic data to forecast weather and identify climate types
8. Understand advanced concepts of flight and regulations peculiar to both IFR and Commercial aircraft operations.

In addition, students completing the optional flight training laboratories will:

1. Have acquired basic skills in pre-flight operations.
  2. Be able to demonstrate competency in aeronautical knowledge across the FAA private pilot knowledge content areas as delineated in FAR/AIM 61.105, a-b
  3. Be able to use and interpret flight navigational systems.
  4. Be competent to perform cross country flight.
  5. Be able to apply visual flight rules to a proficient level to carry out an FAA check ride.
  6. Be able to perform pre- and in-flight calculations with an E6B (problem solving).
  7. Become proficient as a student pilot to be endorsed to pass the FAA knowledge exam.
  8. Carry out advanced flight maneuvers.
  9. Have acquired advanced lab (practical) skills in aircraft operations and flight proficiencies allowing safe operations in the IFR and Commercial environment.
  10. Be able to demonstrate competency in aeronautical knowledge across the FAA IFR and commercial content areas as delineated in FAR/AIM 61.65 and 61.125.
- Courses required for the minor
    - AVS101: Aviation Science I (4 hours)
    - AVS102: Aviation Science II (4 hours)
    - AVS201: Advanced Aviation Science I (4 hours)
    - AVS202: Advanced Aviation Science II (4 hours)
    - ENV105: Earth Science (4 hours)
    - AND -ENV105L: Earth Science Laboratory
  - Minor Courses

#### The list below displays all the courses offered by the minor:

- AVS101: Aviation Science I (4 hours)

- AVS101L: Aviation Science I Lab
- AVS102: Aviation Science II (4 hours)
- AVS102L: Aviation Science II Lab
- AVS201: Advanced Aviation Science I (4 hours)
- AVS201L: Aviation Science II Lab
- AVS202: Advanced Aviation Science II (4 hours)
- AVS202L: Advanced Aviation Science II Lab

- **Chemistry and Biochemistry**

<b>Timothy C. Flewelen</b>	<b>Lecturer</b>
<b>Kevin McMahon</b>	<b>Associate Professor</b>
<b>Kent E. Molter</b>	<b>Distinguished Lecturer</b>
<b>Joseph J. Piatt</b>	<b>Associate Professor</b>
<b>Jamie B. Scaglione</b>	<b>Assistant Professor</b>
<b>Michael D. Schuder</b>	<b>Associate Professor</b>
<b>Gail M. Vojta</b>	<b>Distinguished Lecturer</b>

The Chemistry and Biochemistry Program is approved by the Committee on Professional Training of the American Chemical Society. This approval means that the program has the faculty, curriculum and instrumentation necessary to provide a quality education for undergraduate students.

### Learning Outcomes for Chemistry and Biochemistry

Upon successful completion of the chemistry or biochemistry major, students will:

1. Understand the basic definitions, concepts and relationships of chemistry.
2. Develop advanced skills in evaluating library searches for primary literature.
3. Understand fundamental laboratory analyses and safety protocols.
4. Perform quantitative and qualitative scientific analyses.
5. Understand the basic theory and use of modern instrumentation.
6. Use computers for chemical applications including technical writing, modeling, data collecting and processing, and database searching.
7. Prepare effective written scientific reports and oral presentations for professional audiences.
8. Work cooperatively in problem solving situations.
9. Understand the benefits and problems of modern chemistry for our society.

Recognizing the individuality of students and that chemistry can be a strong preparation for a variety of careers, the program offers two majors, chemistry and biochemistry, each with multiple emphases. Each of these majors offers courses in the basic areas of inorganic, organic, analytical, physical, and biochemistry, and can be supplemented by special opportunities such as industrial internships and independent research. Modern scientific instrumentation is available and incorporated into all courses of the curriculum. Students are encouraged to consult with chemistry and biochemistry faculty about the various emphases and opportunities associated with each. Students must complete core courses, required support courses and the requirements for the emphasis.

- **Chemistry Major**

### Chemistry Major

**Students must complete all core requirements and one of the emphases below.**

1. **Liberal Arts Emphasis** is for those students who plan to pursue professional work in an allied health field such as medicine, dentistry, optometry, or veterinary science or pursue an industrial career.

Upon completion of this emphasis, students will:

- Develop an advanced understanding in a particular field of chemistry.
- Obtain work-related career experience in an industrial, corporate or medical setting.

2. **American Chemistry Society Approved Emphasis** is especially suited for students planning on graduate work or desiring the best preparation for employment in the chemical sciences.

Upon completion of this emphasis, students will:

- Develop an advanced understanding in multiple fields of chemistry.
- Develop an independent research project, acquire and analyze data, and present the results at an off-campus professional meeting.

3. **Forensic Science Emphases** are multidisciplinary programs designed to train students in the analysis of physical and chemical case evidence and the associated legal implications.

Upon completion of this emphasis, students will:

- Understand the basic definitions, concepts and relationships of criminalistics.
- Understand intake, transport and biochemical processes of toxins in the human body.
- Gain expertise in the collection and analysis of evidence specific to forensic science.
- Develop an independent research project, acquire and analyze data, and present the results at Celebrate Carroll.

4. **Forensic Science Professional Emphasis** in addition to the Forensic Science Emphasis above, this professional emphasis will best prepare students for graduate studies in forensic science.

- Chemistry Major Core Courses
  - CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory
  - CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
  - CHE201: Analytical Chemistry (4 hours)  
AND -CHE201L: Analytical Chemistry Laboratory

- CHE203: Organic Chemistry I (4 hours)  
AND -CHE203L: Organic Chemistry I Laboratory
- CHE204: Organic Chemistry II (4 hours)  
AND -CHE204L: Organic Chemistry II Laboratory
- CHE303: Quantum Mechanics and Spectroscopy (4 hours)  
AND -CHE303L: Quantum Mechanics and Spectroscopy Laboratory
- CHE308: Biochemistry I (4 hours)  
AND -CHE308L: Biochemistry I Laboratory
- CHE401: Advanced Chemical Analysis and Instrumentation (4 hours)  
AND -CHE401L: Advanced Chemical Analysis and Instrumentation Laboratory
- CHE402: Capstone - Modern Chemistry (4 hours)  
AND -CHE402L: Capstone - Modern Chemistry Laboratory
- Required Support Courses:
  - MAT160: Calculus I (4 hours)
  - PHY203: General Physics I (4 hours)  
AND -PHY203L: General Physics I Laboratory

- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Liberal Arts Emphasis

#### Liberal Arts Emphasis

Chemistry major core courses plus.

- Core Courses plus
  - CHE304: Thermodynamics and Kinetics (4 hours)  
AND -CHE304L: Thermodynamics and Kinetics Laboratory
  - MAT161: Calculus II (4 hours)  
AND -MAT161L: Calculus II - Laboratory

- American Chemistry Society Approved Emphasis

#### American Chemistry Society Approved Emphasis

Chemistry major core courses plus.

- CHE302: Advanced Inorganic Chemistry (4 hours)  
AND -CHE302L: Advanced Inorganic Chemistry Laboratory
- CHE304: Thermodynamics and Kinetics (4 hours)  
AND -CHE304L: Thermodynamics and Kinetics Laboratory
- MAT161: Calculus II (4 hours)  
AND -MAT161L: Calculus II - Laboratory
- PHY204: General Physics II (4 hours)  
AND -PHY204L: General Physics II Laboratory

To receive recognition of completion of this emphasis, students must earn a C or better in all chemistry major core courses and emphasis specific courses, and present results of a research project at a national chemistry meeting.

- Forensic Science Emphasis

#### Forensic Science Emphasis

Chemistry major core courses plus.

- CHE104: Forensic Science (4 hours)  
AND -CHE104L: Forensic Science Laboratory
- CHE310: Advanced Forensic Science (4 hours)  
AND -CHE310L: Advanced Forensic Science Laboratory

- SOC103: Introduction to Criminal Justice (4 hours)
- SOC203: Criminal Procedure, Evidence and Investigation (4 hours)

- Forensic Science Professional Emphasis

#### Forensic Science Professional Emphasis

Chemistry major core courses plus.

- BIO120: General Biology I (4 hours)  
AND -BIO120L: General Biology I Laboratory
- BIO131: Genetics in Family and Society (4 hours)  
AND -BIO131L: Genetics in Family and Society Lab
- CHE104: Forensic Science (4 hours)  
AND -CHE104L: Forensic Science Laboratory
- CHE310: Advanced Forensic Science (4 hours)
- MAT161: Calculus II (4 hours)  
AND -MAT161L: Calculus II - Laboratory
- PHY204: General Physics II (4 hours)  
AND -PHY204L: General Physics II Laboratory
- SOC103: Introduction to Criminal Justice (4 hours)
- SOC203: Criminal Procedure, Evidence and Investigation (4 hours)
- Choose three from the following:
  - CHE302: Advanced Inorganic Chemistry (4 hours)  
AND -CHE302L: Advanced Inorganic Chemistry Laboratory
  - CHE304: Thermodynamics and Kinetics (4 hours)  
AND -CHE304L: Thermodynamics and Kinetics Laboratory
  - CHE306: Synthesis and Structure (4 hours)
  - CHE309: Biochemistry II (4 hours)
  - CHE480: Internship in Chemistry (1 TO 4 hours)
  - If students choose to take CHE480 they must take 4 credit hours.
  - CMP112: Computational Thinking I (4 hours)
  - GRC230: Digital Photography (4 hours)
  - SOC204: Introduction to Criminal Law (4 hours)
  - SOC212: Criminology (4 hours)

- Chemistry Minor

- CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory
- CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
- CHE201: Analytical Chemistry (4 hours)  
AND -CHE201L: Analytical Chemistry Laboratory
- CHE203: Organic Chemistry I (4 hours)  
AND -CHE203L: Organic Chemistry I Laboratory
- CHE308: Biochemistry I (4 hours)  
AND -CHE308L: Biochemistry I Laboratory

- Biochemistry Major

#### Biochemistry Major

**Students must complete all core requirements and one of the emphases below.**

1. **Liberal Arts Emphasis** provides a mixture of chemistry and biology courses and is designed for students who are interested in biology but want to solidify their understanding of the molecular view of it. Graduates will be prepared for professional school, graduate school, medical school or employment in biological and biomedical sciences.

Upon completion of this emphasis, students will:

- Develop an advanced understanding in a particular field of biological chemistry.
- Develop an advanced understanding of medical biology.
- Develop an independent research project, acquire and analyze data, and present the results at Celebrate Carroll.

2. **American Chemistry Society Approved Emphasis** is designed to prepare students for graduate school in chemistry or biochemistry, medical school, or employment in biomedical sciences.

Upon completion of this emphasis, students will:

- Develop an advanced understanding in multiple fields of chemistry and biological chemistry.
- Develop an independent research project, acquire and analyze data, and present the results at an off-campus professional meeting.

3. **Rosalind Franklin Pre-Pharmacy Emphasis** is a 3+1 program designed to prepare students for direct admission to a pharmacy program. While this emphasis contains courses required for admission to most pharmacy programs in the US during the student's first three years, a matriculation agreement with Rosalind Franklin University of Medicine and Science (RFUMS) allows students who are admitted to RFUMS to transfer first year coursework completed at RFUMS back to Carroll and receive a Bachelor of Science in biochemistry with Pre-Pharmacy Emphasis from Carroll University. Students not attending RFUMS may add a fourth year at Carroll to complete a biochemistry degree with Pre-Health Science/Professional Emphasis.

- Biochemistry Major Core Courses

- CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory

- CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
- CHE203: Organic Chemistry I (4 hours)  
AND -CHE203L: Organic Chemistry I Laboratory
- CHE204: Organic Chemistry II (4 hours)  
AND -CHE204L: Organic Chemistry II Laboratory
- CHE308: Biochemistry I (4 hours)  
AND -CHE308L: Biochemistry I Laboratory
- CHE309: Biochemistry II (4 hours)
- CHE401: Advanced Chemical Analysis and Instrumentation (4 hours)  
AND -CHE401L: Advanced Chemical Analysis and Instrumentation Laboratory
- CHE402: Capstone - Modern Chemistry (4 hours)  
AND -CHE402L: Capstone - Modern Chemistry Laboratory
- Required Support Courses
  - BIO120: General Biology I (4 hours)  
AND -BIO120L: General Biology I Laboratory
  - BIO125: General Biology II (4 hours)  
AND -BIO125L: General Biology II Laboratory
  - BIO220: Genetics (4 hours)  
AND -BIO220L: Genetics Laboratory
  - MAT160: Calculus I (4 hours)  
AND -MAT160L: Calculus I - Laboratory
  - PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory  
AND -PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory  
OR -PHY203: General Physics I (4 hours)  
AND -PHY203L: General Physics I Laboratory  
AND -PHY204: General Physics II (4 hours)  
AND -PHY204L: General Physics II Laboratory
- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Liberal Arts Emphasis

#### Liberal Arts Emphasis

Biochemistry major core courses plus.

- CHE201: Analytical Chemistry (4 hours)  
AND -CHE201L: Analytical Chemistry Laboratory

- American Chemistry Society Approved Emphasis

#### American Chemistry Society Approved Emphasis

Biochemistry major core courses plus.

- BIO332: Gene Manipulation and Genomics (4 hours)  
AND -BIO332L: Gene Manipulation and Genomics Lab  
OR -BIO452: Cell Biology (4 hours)  
AND -BIO452L: Cell Biology Laboratory
- CHE201: Analytical Chemistry (4 hours)  
AND -CHE201L: Analytical Chemistry Laboratory
- CHE302: Advanced Inorganic Chemistry (4 hours)  
AND -CHE302L: Advanced Inorganic Chemistry Laboratory
- CHE303: Quantum Mechanics and Spectroscopy (4 hours)  
AND -CHE303L: Quantum Mechanics and Spectroscopy Laboratory
- CHE304: Thermodynamics and Kinetics (4 hours)  
AND -CHE304L: Thermodynamics and Kinetics Laboratory
- MAT161: Calculus II (4 hours)  
AND -MAT161L: Calculus II - Laboratory
- PHY203: General Physics I (4 hours)  
AND -PHY203L: General Physics I Laboratory
- PHY204: General Physics II (4 hours)  
AND -PHY204L: General Physics II Laboratory

To receive recognition of completion of this emphasis, students must earn a C or better in all chemistry major core courses and emphasis specific courses, and present results of a research project at a national chemistry meeting.

- o Rosalind Franklin Pre-Pharmacy Emphasis

#### Rosalind Franklin Pre-Pharmacy Emphasis

Biochemistry major core courses plus.

- o ANP402: Human Anatomy (4 hours)  
AND -ANP402L: Human Anatomy Laboratory  
OR -ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab  
AND -ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
- o ECO124: Principles of Economics I - Microeconomics (4 hours)
- o HIS103: Roots of the Western World (4 hours)  
OR -HIS104: Europe and the Modern World (4 hours)
- o PSY101: Introductory Psychology (4 hours)
- o RFUMS YPHS504: Biochemical Principles for Pharmacy
- o RFUMS PBBS 505A: Microbiology and Immunology

- o Biochemistry Minor

- o ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab  
AND -ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab  
OR -BIO120: General Biology I (4 hours)  
AND -BIO120L: General Biology I Laboratory  
AND -BIO125: General Biology II (4 hours)  
AND -BIO125L: General Biology II Laboratory
- o CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory
- o CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
- o CHE203: Organic Chemistry I (4 hours)  
AND -CHE203L: Organic Chemistry I Laboratory
- o CHE308: Biochemistry I (4 hours)  
AND -CHE308L: Biochemistry I Laboratory

- o Courses offered by the program:

- o CHE101: General Chemistry (4 hours)
- o CHE101L: General Chemistry Laboratory
- o CHE102: Biological Chemistry (4 hours)
- o CHE102L: Biological Chemistry Laboratory
- o CHE104: Forensic Science (4 hours)
- o CHE104L: Forensic Science Laboratory
- o CHE106: Drug Discovery (4 hours)
- o CHE106L: Drug Discovery Laboratory
- o CHE109: Principles of Chemistry I (4 hours)
- o CHE109L: Principles of Chemistry I Laboratory
- o CHE110: Principles of Chemistry II (4 hours)
- o CHE110L: Principles of Chemistry II - Laboratory
- o CHE201: Analytical Chemistry (4 hours)
- o CHE201L: Analytical Chemistry Laboratory
- o CHE203: Organic Chemistry I (4 hours)
- o CHE203L: Organic Chemistry I Laboratory
- o CHE204: Organic Chemistry II (4 hours)
- o CHE204L: Organic Chemistry II Laboratory
- o CHE302: Advanced Inorganic Chemistry (4 hours)
- o CHE302L: Advanced Inorganic Chemistry Laboratory
- o CHE303: Quantum Mechanics and Spectroscopy (4 hours)
- o CHE303L: Quantum Mechanics and Spectroscopy Laboratory
- o CHE304: Thermodynamics and Kinetics (4 hours)
- o CHE304L: Thermodynamics and Kinetics Laboratory
- o CHE306: Synthesis and Structure (4 hours)
- o CHE308: Biochemistry I (4 hours)
- o CHE308L: Biochemistry I Laboratory
- o CHE309: Biochemistry II (4 hours)
- o CHE310: Advanced Forensic Science (4 hours)
- o CHE390: Projects in Chemistry (1 TO 4 hours)
- o CHE391: Special Topics in Chemistry (1 TO 4 hours)
- o CHE391L: Special Topics Laboratory
- o CHE401: Advanced Chemical Analysis and Instrumentation (4 hours)
- o CHE401L: Advanced Chemical Analysis and Instrumentation Laboratory
- o CHE402: Capstone - Modern Chemistry (4 hours)
- o CHE402L: Capstone - Modern Chemistry Laboratory
- o CHE480: Internship in Chemistry (1 TO 4 hours)

- o Computer Science and Information Technology

**Chenglie Hu**

**Michael G. Konemann**

**Marie S. Schwerm**

**Mission Statement**

**Professor**

**Associate Professor**

**Senior Lecturer**

In accordance with the mission of Carroll University, the Computer Science and IT Programs provide an excellent and state-of-the-art educational opportunity for students based on their individual skill sets, interests and career



goals in the areas of modern software development, business problem solving, and IT problem solving and support. Both programs enable students to combine their theoretical and technical understanding with their broad-based liberal-arts education to think analytically and critically when designing and implementing software or IT solutions.

### General

The Computer Science and IT programs are grounded in the liberal arts tradition, balance theory and practice, and focus on the problem-solving skills necessary for life-long learning in a field characterized by rapid change in technology. We succeed in our mission by preparing our students through classroom work and appropriate external internships to secure fulfilling careers in the field of their choosing.

The world has been in an era of rapid technological advancement. The Internet, World Wide Web, and Mobile Computing have increasingly become critically important in corporate strategies, people's social lives and personal development. We recognize this by integrating the latest technologies into the curricula. The curricula are designed to emphasize problem solving, multiple programming paradigms, and higher order thought processes that will always be needed by corporate America under any business models.

Computer science and information technology students at Carroll work on state-of-the-art computing facilities with the latest software application packages. They have access to Microsoft, Macintosh, and Unix/Linux computing platforms, and Oracle or Microsoft SQL Server Database Management Systems via the campus-wide network. There is equipment exclusively available for the use of computer science and information technology majors.

### Learning Outcomes for Computer Science Major

Graduates of the Computer Science Program are able to:

1. Problem-solve (for business, scientific, Web, and recreational problems) through programming using multiple programming paradigms, enterprise resources, different software development frameworks, sound software design techniques and software engineering practices.
2. Successfully work in or be adapted to an organization in any business setting to meet technology challenges.
3. Further their academic pursuits and meet challenges in graduate schools by having the necessary body of theory that underpins the discipline of computer science.
4. Demonstrate an understanding of ethics as it applies to the discipline of computer science.
5. Work effectively as part of a team.

### Learning Outcomes for Information Technology Major

Graduates of the Information Technology Program are able to:

1. Think creatively and analytically in technological problem-solving.
2. Problem-solve using productivity software and through computer programming.
3. Demonstrate an understanding of information system and technology evaluation and management.
4. Demonstrate an understanding of the application of new and developing technologies with sensitivity for security and ethical issues at global, societal, organizational, and personal levels.
5. Work effectively as part of a team.

- **Computer Science Major (48 credits)**
  - Core Courses for the Computer Science Major (32 credits)

Computer Science majors must complete 48 credit hours, consisting of: 32 credit hours of core courses in Computer Science, 8 credit hours of Computer Science electives and 8 credit hours of support courses. Additionally students must complete all other university requirements. Students may also pursue the Computer Game Development articulation agreement between Carroll and Milwaukee Area Technical College (MATC) which requires an additional 7 courses that are taken at the MATC campus, as well as 24 additional Carroll credits for a total of 92 credits.

Students start taking major course requirements Fall of Freshman year

- **CSC110: Problem Solving through Programming (4 hours)**
- **CSC111: Introduction to JAVA (4 hours)**
- **CSC226: Data Structures using JAVA (4 hours)**
- **CSC240: Computer Organization and Architecture (4 hours)**
- **CSC341: Software Design and Development (4 hours)**
- **CSC351: Database Design and Implementation (4 hours)**
- **CSC450: Projects-Computer Science Majors (4 hours)**
- **CSC480: Internship in Computer Science (1 TO 12 hours)**
- NOTE: For major requirements, CSC480 must be taken for 4 credits. However, CSC480 may be repeated for a maximum of 12 credits, but each repetition requires a substantially different work experience.
- Choose two elective courses from the following list (8 credits):
  - **CSC303: Network Protocols (4 hours)**
  - **CSC307: Operating Systems and Web Master Fundamentals-Unix/Linux Apache (4 hours)**
  - **CSC319: World Wide Web Programming (4 hours)**
  - **CSC323: Programming Languages (4 hours)**
  - **CSC353: Mobile Application Development (4 hours)**
  - **CSC440: Software Engineering (4 hours)**

It is recommended that students refer to the following list to choose electives based on an area of interest:

**Software Engineering or Graduate school:** CSC323: Programming Languages and CSC440: Software Engineering

**Mobile Development:** CSC319: WWW Programming and CSC353: Mobile Application Development



**Technical Support:** CSC303: Networks and CSC307: Operating Systems

- Required Support Courses for the Computer Science Major (8 credits)
  - **COM101: Principles of Communication (4 hours)**
  - **MAT160: Calculus I (4 hours)**
  - **AND -MAT160L: Calculus I - Laboratory**
- Computer-Game Development Carroll-MATC Articulation Agreement (44 additional credits)
  - Courses taken at Carroll campus (24 credits)
    - **BUS101: Introduction to Business (4 hours)**
    - **CSC431: Artificial Intelligence (4 hours)**
    - **CSC437: Computer Graphics (4 hours)**
    - **GRC360: Interactive Media (4 hours)**
    - **PHY101: Introductory Physics I (4 hours)**
    - **AND -PHY101L: Introductory Physics Laboratory**
    - **PHY102: Introductory Physics II (4 hours)**
    - **AND -PHY102L: Introductory Physics Laboratory**
  - Courses taken at Milwaukee MATC (20 credits):
    - **CGS110/CSC113: Introduction to Computer Simulation and gaming (3 hours)**
    - **CGS115/CSC115: CSG Production (3 hours)**
    - **CGS129/CSC129: CSG Architecture (2 hours)**
    - **CGS130/CSC130: CSG Design (3 hours)**
    - **VICOM-140/CSC140: Visual Communication Practices (2 hours)**
    - **CSG180/CSC180: Multimedia Collaborative Lab (3 hours)**
    - **CSG181/CSC182: CSG Collaborative Lab (4 hours)**
- NOTE: Computer Science majors have the B.S. requirement met by taking the CSC110 and MAT160
- Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - **GE1 and GE2 Courses**
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Computer Science Minor (24 credits)
  - Required Core Courses (16 credits)
    - **CSC110: Problem Solving through Programming (4 hours)**
    - **CSC111: Introduction to JAVA (4 hours)**
    - **CSC226: Data Structures using JAVA (4 hours)**
    - **CSC351: Database Design and Implementation (4 hours)**
  - Choose two courses from the following list
    - **CSC240: Computer Organization and Architecture (4 hours)**
    - **CSC303: Network Protocols (4 hours)**
    - **CSC307: Operating Systems and Web Master Fundamentals-Unix/Linux Apache (4 hours)**
    - **CSC319: World Wide Web Programming (4 hours)**
    - **CSC323: Programming Languages (4 hours)**
    - **CSC341: Software Design and Development (4 hours)**
    - **CSC353: Mobile Application Development (4 hours)**
    - **CSC440: Software Engineering (4 hours)**

It is recommended that student refer to the following list to choose two courses based on an area of interest:

- **Web Development:** Computer Science 319 and Computer Science 351
- **Computer Networking:** Computer Science 303 and Computer Science 401
- **Software Engineering:** Computer Science 409 and Computer Science 440
- **Computer Science Core:** Computer Science 323 and Computer Science 421
- **Information Systems:** Computer Science 220 and Computer Science 409
- **Information Technology:** Computer Science 309 and Computer Science 351
- **Computer Game Development:** Computer Science 431 and Computer Science 437

- Information Technology Major (48 credits)
  - Core for Information Technology Major (32 credits)
    - **CSC110: Problem Solving through Programming (4 hours)**
    - **CSC220: Information Systems (4 hours)**
    - **CSC240: Computer Organization and Architecture (4 hours)**
    - **CSC303: Network Protocols (4 hours)**
    - **CSC307: Operating Systems and Web Master Fundamentals-Unix/Linux Apache (4 hours)**
    - **CSC319: World Wide Web Programming (4 hours)**
    - **OR -CSC353: Mobile Application Development (4 hours)**
    - **CSC409: Information Technology Mgmt. in an E-Commerce World (4 hours)**
    - **CSC480: Internship in Computer Science (1 TO 12 hours)**
    - NOTE: For major requirements, CSC480 must be taken for 4 credits. However, CSC480 may be repeated for a maximum of 12 credits, but each repetition requires a substantially different work experience.
  - Required Support Courses for Information Technology Major (16 additional credits)
    - **BUS101: Introduction to Business (4 hours)**
    - **BUS302: Principles of Management (4 hours)**

- [CMP112: Computational Thinking I \(4 hours\)](#)
- [COM101: Principles of Communication \(4 hours\)](#)
- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- [CMP112](#) and either [CMP113](#) or [CMP114](#) or
- [MAT140](#) or higher and [CSC110](#) or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - [Cross-Cultural Component](#)
  - [Distribution Component](#)
  - [GE1 and GE2 Courses](#)
  - [Cross Cultural Development](#)
- Information Technology Minor (24 credits)
  - Required Core Courses (20 credits)
    - [CSC110: Problem Solving through Programming \(4 hours\)](#)
    - [CSC220: Information Systems \(4 hours\)](#)
    - [CSC240: Computer Organization and Architecture \(4 hours\)](#)
    - [CSC303: Network Protocols \(4 hours\)](#)
    - [CSC409: Information Technology Mgmt. in an E-Commerce World \(4 hours\)](#)
  - Choose one elective from the following list:
    - [CSC307: Operating Systems and Web Master Fundamentals-Unix/Linux Apache \(4 hours\)](#)
    - [CSC319: World Wide Web Programming \(4 hours\)](#)
    - [CSC351: Database Design and Implementation \(4 hours\)](#)
    - [CSC353: Mobile Application Development \(4 hours\)](#)
- Courses offered by the program:
  - [CSC109: Technological Productivity \(2 hours\)](#)
  - [CSC110: Problem Solving through Programming \(4 hours\)](#)
  - [CSC111: Introduction to JAVA \(4 hours\)](#)
  - [CSC211: Database Web Creation and Networks \(4 hours\)](#)
  - [CSC220: Information Systems \(4 hours\)](#)
  - [CSC226: Data Structures using JAVA \(4 hours\)](#)
  - [CSC240: Computer Organization and Architecture \(4 hours\)](#)
  - [CSC303: Network Protocols \(4 hours\)](#)
  - [CSC307: Operating Systems and Web Master Fundamentals-Unix/Linux Apache \(4 hours\)](#)
  - [CSC319: World Wide Web Programming \(4 hours\)](#)
  - [CSC323: Programming Languages \(4 hours\)](#)
  - [CSC341: Software Design and Development \(4 hours\)](#)
  - [CSC351: Database Design and Implementation \(4 hours\)](#)
  - [CSC353: Mobile Application Development \(4 hours\)](#)
  - [CSC391: Special Studies/Topics \(1 TO 4 hours\)](#)
  - [CSC396: Research in Computer Science \(4 hours\)](#)
  - [CSC398: Independent Study \(1 TO 4 hours\)](#)
  - [CSC409: Information Technology Mgmt. in an E-Commerce World \(4 hours\)](#)
  - [CSC431: Artificial Intelligence \(4 hours\)](#)
  - [CSC436: Theory of Computation \(4 hours\)](#)
  - [CSC437: Computer Graphics \(4 hours\)](#)
  - [CSC440: Software Engineering \(4 hours\)](#)
  - [CSC450: Projects-Computer Science Majors \(4 hours\)](#)
  - [CSC480: Internship in Computer Science \(1 TO 12 hours\)](#)
- [Computer Science Dual Degree Program](#)

This program allows students to gain a solid computer science background and advanced professional software development skills on an accelerated pace and be ready for the challenges of the information technology industry upon graduation. The program allows students to be able to still finish a Bachelor of Science degree in four years or fewer should they choose not to continue with the five-year program.

#### Admission Requirement

Current Carroll University students pursuing the computer science major may be considered for the dual degree CSC/MSE program. To be considered for the dual degree program, students must comply with the following as appropriate:

- a. Freshman students must complete a major minor declaration to the Registrar Office indicating the pursuit of the dual degree program by listing major 1 as Computer Science, major 2 as Master of Software Engineering and the emphasis as dual degree seeking. (Students must however maintain an overall GPA of 2.75 or higher and a major GPA of 3.0 or higher to remain in the dual degree program.)
  - b. Current Carroll students must apply for admission to the MSE Program no later than the end of spring semester of the junior year. Student must submit a letter of intent to the Office of Graduate Admission. Upon verification of the GPA requirements, Office of Graduate Admission will ask the computer science faculty to evaluate the student's candidacy. The Office of Graduate Admission will then notify the candidate of MSE admission decisions. If admitted, student must also complete a major minor declaration form (with the same content indicated above).
  - c. The transcript of a dual degree student will list the dual degree emphasis.
  - d. Dual degree students will generally commence MSE course work during the senior year at the University.
    - [Sample Course Completion Schedule for CS/SE Emphasis](#)
    - [Sample Course Completion Schedule for CS/ABET-Suggested Curriculum Emphasis](#)
- [Mathematics](#)

<b>Heather Evans</b>	<b>Senior Lecturer</b>
<b>David A. Feil</b>	<b>Associate Professor</b>
<b>Darrel Johnson</b>	<b>Senior Lecturer</b>
<b>Kristen A. Lampe</b>	<b>Professor</b>
<b>Thomas St. George</b>	<b>Assistant Professor</b>
<b>John C. Symms</b>	<b>Associate Professor</b>

The major in mathematics includes courses in pure and applied mathematics, offering a broad and in-depth foundation for students with diverse interests and backgrounds. All courses in the curriculum develop logical thinking, quantitative reasoning, and deductive analysis, making majors and minors highly attractive to graduate schools and employers in industry.

Combined with complementary course work, a mathematics major gives strong preparation for graduate study in an increasingly wide variety of disciplines. These include biostatistics, computer science, economics, forestry, genetics, meteorology, operations research, physics, psychology, pure and applied mathematics, sociology, and most engineering fields.

Career opportunities for those with a mathematics major are equally varied. These include positions in the fields of actuarial science, banking and financial services, communications, computer science, consulting, government, health services, management, public policy, research organizations, utilities, and transportation.

The major in mathematics is approved by the Wisconsin Department of Public Instruction for certification in mathematics.<sup>1</sup>

Please see Academic Program and Policies in this catalog for information about how retroactive credits in calculus may be earned.

#### Learning Outcomes for Mathematics

Students majoring in mathematics are expected to:

1. Learn to read, write, speak and do mathematics.
2. Demonstrate competence in the use of appropriate technology in support of mathematical calculation, symbolic manipulation and graphical analysis.
3. Demonstrate their understanding of the nature of mathematical proof.
4. Apply mathematics to a variety of problems in the natural, computational and social sciences.
5. Learn the contributions of mathematics and mathematicians to the growth of knowledge.
6. Prepare for advanced studies in mathematics or for a profession.
7. Develop an appreciation for mathematics as an art.

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<sup>1</sup> Students must normally maintain a 2.75 grade point average in the major to remain in good standing in the Teacher Education Program.

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- **Mathematics Major (B.A.)**
  - Courses in the Major
    - **MAT160: Calculus I (4 hours)**
    - **MAT161: Calculus II (4 hours)**
    - **MAT206: Transition to Adv Mathematics (4 hours)**
    - **MAT207: Calculus III (4 hours)**
    - **MAT208: Linear Algebra (4 hours)**
    - **MAT320: Abstract Algebra (4 hours)**
    - **MAT409: Mathematical Analysis (4 hours)**
    - **MAT450: Mathematics Senior Capstone (2 TO 4 hours)**
    - Two of the following five courses:
      - **MAT305: Modern Geometry (4 hours)**
      - **MAT309: Differential Equations (4 hours)**
      - **MAT312: Theory of Probability & Statistics (4 hours)**
      - **MAT324: Numerical Analysis (4 hours)**
      - **MAT350: Mathematics Seminar (4 hours)**
  - Required Support Courses (Required for primary majors only)
    - Completion of a Modern Language through 202
- \*To be certified by the DPI, students must take Mathematics 305 and 312.
- Bachelor of Arts Requirement

#### Bachelor of Arts Requirement

The requirements for a Bachelor of Arts are:

- Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- **MAT106** or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- o The Pioneer Core Program
  - o Cross-Cultural Component
  - o Distribution Component
  - o GE1 and GE2 Courses
  - o Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- o Mathematics Major (B.S.)
  - o Courses in the Major
    - o MAT160: Calculus I (4 hours)
    - o MAT161: Calculus II (4 hours)
    - o MAT207: Calculus III (4 hours)
    - o MAT206: Transition to Adv Mathematics (4 hours)
    - o MAT208: Linear Algebra (4 hours)
    - o MAT320: Abstract Algebra (4 hours)
    - o MAT409: Mathematical Analysis (4 hours)
    - o MAT450: Mathematics Senior Capstone (2 TO 4 hours)
  - o Three of the following four courses:
    - o MAT305: Modern Geometry (4 hours)
    - o MAT309: Differential Equations (4 hours)
    - o MAT312: Theory of Probability & Statistics (4 hours)
    - o MAT324: Numerical Analysis (4 hours)
  - o Required Support Courses (Required for primary majors only)
    - o CSC110: Problem Solving through Programming (4 hours)

\*To be certified by the DPI, students must take Mathematics 305 and 312, and a biological science.

- o Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- o CMP112 and either CMP113 or CMP114 or
- o MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- o The Pioneer Core Program
  - o Cross-Cultural Component
  - o Distribution Component
  - o GE1 and GE2 Courses
  - o Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- o Mathematics Minor
  - o MAT160: Calculus I (4 hours)
  - o MAT161: Calculus II (4 hours)
  - o Other requirements

Three additional courses in Mathematics at the 200-level or higher excluding: [Mathematics 201](#)
- o Secondary Education Mathematics Minor
  - o MAT160: Calculus I (4 hours)
  - o MAT161: Calculus II (4 hours)
  - o MAT206: Transition to Adv Mathematics (4 hours)
  - o MAT207: Calculus III (4 hours)
  - o MAT305: Modern Geometry (4 hours)
  - o MAT312: Theory of Probability & Statistics (4 hours)
- o Elementary Education Mathematics Minor
  - o MAT104: Foundations of Elementary Mathematics I (4 hours)
  - o MAT140: Calculus and Its Applications (4 hours)
  - OR -MAT160: Calculus I (4 hours)
  - o MAT201: Foundations of Elementary Mathematics II (4 hours)
  - o MAT206: Transition to Adv Mathematics (4 hours)
  - o MAT305: Modern Geometry (4 hours)
  - o CMP112: Computational Thinking I (4 hours)
- o Courses offered by the program:
  - o MAT101: Intermediate Algebra (4 hours)
  - o MAT104: Foundations of Elementary Mathematics I (4 hours)
  - o MAT106: Mathematics for the Liberal Arts (4 hours)
  - o MAT130: Elementary Functions (4 hours)
  - o MAT140: Calculus and Its Applications (4 hours)
  - o MAT160: Calculus I (4 hours)
  - o MAT160L: Calculus I - Laboratory
  - o MAT161: Calculus II (4 hours)
  - o MAT161L: Calculus II - Laboratory
  - o MAT201: Foundations of Elementary Mathematics II (4 hours)
  - o MAT205: Discrete Mathematics (4 hours)
  - o MAT206: Transition to Adv Mathematics (4 hours)
  - o MAT207: Calculus III (4 hours)
  - o MAT208: Linear Algebra (4 hours)
  - o MAT215: Engineering Mathematics I (4 hours)

- o MAT216: Engineering Mathematics II (4 hours)
- o MAT305: Modern Geometry (4 hours)
- o MAT309: Differential Equations (4 hours)
- o MAT312: Theory of Probability & Statistics (4 hours)
- o MAT320: Abstract Algebra (4 hours)
- o MAT324: Numerical Analysis (4 hours)
- o MAT350: Mathematics Seminar (4 hours)
- o MAT391: Adv Topics in Mathematics (2 TO 4 hours)
- o MAT409: Mathematical Analysis (4 hours)
- o MAT450: Mathematics Senior Capstone (2 TO 4 hours)
- o MAT491: Adv Topics in Mathematics (2 TO 4 hours)

- **Applied Physics**

**Greg Gabrielsen**

**Scott Greene**

**Tate Wilson**

**Senior Lecturer**

**Lecturer**

**Senior Lecturer**

Applied Physics majors may complete their degree at Carroll University, the University of Wisconsin–Platteville, or the University of Wisconsin–Milwaukee in accordance with the pre-engineering program. For details on this program see a member of the Physics faculty or Department Chair. In either case, the Applied Physics major provides a strong foundation for further studies in physics, engineering, computers, law and medicine. Applied Physics majors can find jobs after graduation in a variety of technologically demanding careers, including engineering positions with local and national firms. Other graduates have chosen to work towards an advanced degree in Engineering.

Physics minors are encouraged to select additional supporting courses in the other sciences. The minor provides excellent preparation for a career in many fields including mathematics, chemistry, biology, medicine and physical therapy.

A certification program to teach physics at the secondary level, with a minor in physics, is available. Details of this program can be obtained from either the physics or the education faculty.

#### Learning Outcomes for the Applied Physics

Upon completion of the major and degree requirements the successful graduate will have:

1. a robust understanding of classical physics theories, including Newtonian mechanics, classical electrodynamics, thermodynamics, and 20th century physics, as well as some current topics in physics and engineering;
2. the ability to work independently to describe a problem within a physical system and create a plan to solve that problem;
3. the ability to apply physical theories to practical problems using both analytical and numerical techniques;
4. an understanding and appreciation of the interdisciplinary nature of physics, particularly in relation to chemistry and mathematics;
5. an understanding and appreciation of the historical development of physics and the role of physics in modern technology.
6. an understanding and appreciation of the basic physical principles underlying the universe.

#### Fees

Specific courses that require use of equipment and disposable supplies are assigned a course fee.

- o **Applied Physics Major**

- o Core

- o PHY203: General Physics I (4 hours)  
AND -PHY203L: General Physics I Laboratory
- o PHY204: General Physics II (4 hours)  
AND -PHY204L: General Physics II Laboratory
- o OR -PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
- o AND -PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
- o PHY301: Electricity and Magnetism (4 hours)  
AND -PHY301L: Electricity and Magnetism Laboratory
- o PHY303: Modern Physics (4 hours)  
AND -PHY303L: Modern Physics Laboratory
- o PHY304: Classical Mechanics (4 hours)
- o PHY320: Thermodynamics (4 hours)
- o PHY450: Advanced Experimental Physics (4 hours)
- o MAT160: Calculus I (4 hours)
- o MAT161: Calculus II (4 hours)
- o MAT207: Calculus III (4 hours)
- o GEN100: Engineering Seminar I (1 hours)
- o GEN101: Engineering Seminar II (1 hours)
- o Required Support Courses
  - o CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory
  - o CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
  - o CSC110: Problem Solving through Programming (4 hours)
  - o MAT216: Engineering Mathematics II (4 hours)  
OR -MAT309: Differential Equations (4 hours)

12 hours of electives in the Mathematics and Physics programs.

- o Bachelor of Science Requirement

## Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- **The Pioneer Core Program**
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- **Physics Minor**
  - Core
    - **PHY203: General Physics I (4 hours)**  
AND -**PHY203L: General Physics I Laboratory**  
AND -**PHY204: General Physics II (4 hours)**  
AND -**PHY204L: General Physics II Laboratory**  
OR -**PHY101: Introductory Physics I (4 hours)**  
AND -**PHY101L: Introductory Physics Laboratory**  
AND -**PHY102: Introductory Physics II (4 hours)**  
AND -**PHY102L: Introductory Physics Laboratory**
    - Two of the following
      - **PHY301: Electricity and Magnetism (4 hours)**  
AND -**PHY301L: Electricity and Magnetism Laboratory**
      - **PHY303: Modern Physics (4 hours)**  
AND -**PHY303L: Modern Physics Laboratory**
      - **PHY304: Classical Mechanics (4 hours)**
      - **PHY320: Thermodynamics (4 hours)**
  - Courses offered by the program:
    - **PHY101: Introductory Physics I (4 hours)**
    - **PHY101L: Introductory Physics Laboratory**
    - **PHY102: Introductory Physics II (4 hours)**
    - **PHY102L: Introductory Physics Laboratory**
    - **PHY105: Astronomy (4 hours)**
    - **PHY105L: Astronomy Laboratory**
    - **PHY203: General Physics I (4 hours)**
    - **PHY203L: General Physics I Laboratory**
    - **PHY204: General Physics II (4 hours)**
    - **PHY204L: General Physics II Laboratory**
    - **PHY301: Electricity and Magnetism (4 hours)**
    - **PHY301L: Electricity and Magnetism Laboratory**
    - **PHY303: Modern Physics (4 hours)**
    - **PHY303L: Modern Physics Laboratory**
    - **PHY304: Classical Mechanics (4 hours)**
    - **PHY320: Thermodynamics (4 hours)**
    - **PHY380: Engineering Internship (4 hours)**
    - **PHY396: Special Problems and Research (4 hours)**
    - **PHY398: Independent Study in Physics (1 TO 4 hours)**
    - **PHY450: Advanced Experimental Physics (4 hours)**
    - **PHY450L: Advanced Experimental Physics Laboratory**
    - **PHY480: Work-Oriented Experience (4 hours)**
    - **PHY496: Special Problems and Research (4 hours)**

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**Computer Science Dual Degree Program**

Sample Course Completion Schedule for CS/SE Emphasis

[Sample Course Completion Schedule for CS/ABET-Suggested Curriculum Emphasis](#)

## Sample Course Completion Schedule for CS/ABET-Suggested Curriculum Emphasis

	Fall Semester	Credit Hours	Spring Semester	Credit Hours	Winter/Summer Term	Credit Hours
<b>Year 1</b>	CCS 100 GE1 MAT 160 GE 1 TOTAL	4 4 4 4 16	ENG 170 CSC 111 MAT 161 GE1 TOTAL	4 4 4 4 16		
<b>Year 2</b>	CSC 226 COM 101 (GE1) GE 2 MAT 207 TOTAL	4 4 4 4 16	CSC 323 (odd yrs) or CSC 271 & 272 (even yrs) MAT 205 CCE CCS 400 CSC Elective TOTAL	4 4 2 2 4 16		
<b>Year 3</b>	MAT 312 CSC Elective CSC Elective LSP TOTAL	4 4 4 4 16	CSC 323 (odd yrs) or CSC 271 & 272 (even yrs) CSC 341 CSC 421 CSC 480* TOTAL	4 4 4 4 16		
<b>Year 4</b>	CSC 440/640 CSC 506 CSC Elective CSC Elective TOTAL	4 3 4 4 15	CSC 560 CSC 600 Elective CSC 450* TOTAL	3 3 4 4 14	CSC 680 TOTAL	6 6
<b>Year 5</b>	CSC 591 CSC 550 CSC 603 TOTAL	3 3 3 9	CSC 650 CSC 602 CSC 643	3 3 3 9	MSE elective CSC 651 TOTAL	3 3 6

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**Computer Science Dual Degree Program**
**Sample Course Completion Schedule for CS/SE Emphasis**

Sample Course Completion Schedule for CS/ABET-Suggested Curriculum Emphasis

**Sample Course Completion Schedule for CS/SE Emphasis**

	Fall Semester	Credits	Spring Semester	Credits	Winter/Summer Term	Credits
<b>Year 1</b>	CCS 100 CSC 110 MAT 160 GE 1 CSC 107* TOTAL	4 4 4 4 2 18	ENG 170 CSC 111 MAT 161 CSC 211 CSC 109* TOTAL	4 4 4 4 2 18		
<b>Year 2</b>	CSC 226 COM 101 (GE 1) GE 1 Elective TOTAL	4 4 4 4 16	CSC 323(odd yrs) OR CSC 271 & 272 (even yrs) MAT 205 GE 1 Elective TOTAL	4 4 4 4 4 16		
<b>Year 3</b>	CSC 351 Elective GE 2 LSP TOTAL	4 4 4 4 16	CSC 323 (odd yrs) OR CSC 271 & 272 (even yrs) CSC 341 CCE CCS 400 CSC 480* TOTAL	4 4 2 2 4 16		
<b>Year 4</b>	CSC 440/640 CSC 506 Elective Elective TOTAL	4 3 4 4 15	CSC 560 CSC 600 Elective CSC 450* TOTAL	3 3 4 4 14	CSC 680 TOTAL	6 6
<b>Year 5</b>	CSC 591 CSC 550 CSC 603 TOTAL	3 3 3 9	CSC 650 CSC 602 CSC 643 TOTAL	3 3 3 9	MSE elective CSC 651 TOTAL	3 3 6

**= 159 CREDITS**

Note: Courses with an astrisk may be taken during winter and/or summer sessions.



**College of Arts and Sciences**

- Communication and Sociology
- Computational and Physical Sciences
- Education**
  - » Undergraduate
- English and Modern Languages
- History, Political Science and Religious Studies
- Life Sciences
- Visual and Performing Arts

**Department: Education**

Chairperson: Kimberly White  
 Room: Barstow 203B Email: [whitek@carrollu.edu](mailto:whitek@carrollu.edu)  
 Telephone: 262-650-4920 Fax: 262-524-7571

**DEPARTMENT FACULTY**

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	Chair of Department of Education		
	Director of Graduate Education Program		

**PROGRAMS OF STUDY**

**Majors**

- Elementary Education
- Educational Studies

**Minors**

- Adaptive Education
- Early Childhood Education
- Secondary Education

**Programs**

[Undergraduate Education](#)

**Education****Undergraduate**

» Education

**Program: Undergraduate**College of Arts and Sciences  
Department: Education• **Education**

<b>Rose Ann Donovan</b>	<b>Assistant Professor</b>
<b>Kimberly K. Hofkamp</b>	<b>Assistant Professor, Director of Clinical Experience</b>
<b>Kathrine A. Kramer</b>	<b>Assistant Professor, Director of Graduate Education Program</b>
<b>Kerry Kretchmar</b>	<b>Assistant Professor</b>
<b>Colleen Pennell</b>	<b>Assistant Professor, Literacy/Elementary Reading</b>
<b>Wilma J. Robinson</b>	<b>Associate Professor</b>
<b>Rachel Stickles</b>	<b>Senior Lecturer</b>
<b>Ann Herrera Ward</b>	<b>Lecturer/Coordinator of Carroll Education Network</b>
<b>Kimberly White</b>	<b>Associate Professor, Chair of Department of Education</b>

## ◦ Undergraduate Program in Education

**Undergraduate Program in Education**

Mission Statement: The Teacher Education Program (TEP) at Carroll University develops professional educators who use their knowledge, skills, and dispositions to serve diverse communities of learners. Our program fosters in candidates a commitment to the understanding that all children, adolescents, and adults can learn, and we further encourage our candidates to dedicate themselves to be advocates for learning. Using developmentally appropriate and educationally effective approaches and guided by state and national standards, our candidates create environments that prepare learners to contribute to a democratic and equitable society in an increasingly interdependent and global world.

Throughout the Teacher Education Program, candidates develop the essential knowledge, skills, and dispositions as described in the Interstate Teacher Assessment and Support Consortium (InTASC) Model Core Teaching Standards (CCSSO, 2011). These standards are used as a resource when reflecting upon teaching practice, professional growth, and when constructing program portfolios. Students are expected to demonstrate proficiency in the following teaching standards:

- Learner development
- Learning differences
- Learning environments
- Content knowledge
- Application of content
- Assessment
- Planning for instruction
- Instructional strategies
- Professional learning and ethical practice
- Leadership and collaboration

Furthermore, the Department of Education at Carroll University strives to model and facilitate the development of dispositions that will help candidates transform from their previous role as students in yesterday's classrooms to tomorrow's educational leaders. Four dispositions that are integral to preparing candidates to be excellent educators and collaborative colleagues include: Constructivist Perspective; Critical Consciousness; Educational Advocacy; and, Professional Integrity.

The Wisconsin Department of Public Instruction (DPI) approves the Teacher Education Program at Carroll. Because the DPI may revise its requirements for teacher licensing at any time, the Teacher Education Programs are subject to change. Students must maintain contact with their education mentor and advisor to learn about changes related to licensure requirements.

## ◦ Admission and Retention

**Admission and Retention in the Teacher Education Program (TEP)<sup>1</sup>**

The Wisconsin Department of Public Instruction requires all teacher education students in the state of Wisconsin to meet certain standards to be admitted and retained in a TEP and to be admitted to a student teaching semester. Admission to the Carroll University TEP requires formal application by all students seeking licensure. Full-time Carroll undergraduate students are encouraged to apply in the spring of their sophomore year. All other students should apply as soon as they have completed 40 credits, including at least 12 credits in Carroll University courses. An appointment should be made with an Education advisor/mentor to obtain information regarding policies and procedures for the application process. Students are cautioned that early application to the program and careful planning are necessary to avoid additional semesters or summer course work to finish the program.

<sup>1</sup> Admission, retention and student teaching requirements are summarized here. The Teacher Education Handbook, available from the Education Program Information MyGroups page or the Education Office, contains all specific requirements.

o Program Admission

**Program Admission**

To be eligible for program admission, students need to have completed at least 40 undergraduate credits with a minimum grade point average of 2.75. Students will need 150 hours of interaction with children as well as a grade of C or better in all education major and minor courses, English 170, and CCS 100 or COM 101 or equivalent. Students also need to have completed the CORE or PPST skills test in mathematics, reading, and writing with passing scores in all three areas. Students with a qualifying ACT/SAT/GRE score are not required to take the CORE/PPST exam. Students submit their Phase I portfolio to provide initial evidence of their development as a teacher and learner. Students are admitted to the TEP before enrolling in upper-level 300-level education courses. Students who leave the University for one year or more are required to reapply for admission to the TEP. The criteria for re-admission will be those in effect at the time of reapplication. Application deadlines are September 25 or January 25 each year. A small percentage of students may be admitted to the program on exception if they meet all other criteria and meet either the GPA or the testing requirement.

Students who have already completed a bachelor's degree and who are attending Carroll only for teacher certification may obtain a waiver from the CORE/PPST, provided their cumulative undergraduate grade point average is 2.75 or above. The course requirements for Wisconsin teaching licensure are the same, but transfer and prior course work are evaluated and considered in the overall plan for certification. Elementary education majors are required to successfully complete the Foundations of Reading Test prior to application to student teach. All students are required to successfully complete the PRAXIS II Content Exam(s) for their certification area(s) prior to application to student teach. Students completing majors or minors for licensure in Modern Languages must successfully complete the ACTFL Language Exam prior to application to student teach.

Students not admitted to the Teacher Education Program on their first attempt are eligible to reapply. If students are denied on their second application, however, they may not reapply to the Teacher Education Program. Students who are unsuccessful in admission to the TEP have access to alternative career counseling through their Education advisor/mentor and Career Services.

o Program Guidelines

**Program Guidelines**

Students who plan to enter and complete the TEP are expected to demonstrate appropriate ethical and professional behavior throughout their university years, and particularly during their course work, fieldwork, and other professional experiences in education. A pattern of ethical lapses may affect admission to or retention in the TEP in respective stages. In their Phase I portfolios, submitted upon application to enter the TEP, students are asked to demonstrate evidence of their existing commitments to the field of education.

This is accomplished, in part, by documenting high school and/or university experiences with children prior to entering the TEP. One hundred fifty clock hours of involvement are required. Experiences may include teaching, coaching, tutoring, or other forms of educational service to children or to schools. Volunteer and service work that is done to benefit children is also considered evidence of existing commitment. The TEP Handbook contains further information on this requirement and its documentation.

All students are expected to:

- Engage in formal or informal experiences, service work with children or in schools prior to applying to the TEP
- Present all required program application materials by established deadlines
- Submit satisfactory Phase I, Phase II and edTPA portfolios, each with a maximum of one revision
- Submit qualifying ACT/SAT/GRE scores or pass each segment of the CORE/PPST on either the first or the second attempt (subsequent attempts are at the student's option)
- Complete EDU 210 and EDU 311 or EDU 312 with an overall maximum of one unsatisfactory experience
- Undergo a background and criminal history check in EDU 100/EDU 102, when applying to the Teacher Education Program, and when applying to Student Teach
- Demonstrate punctuality, dependability, and professional integrity in the completion of courses and course assignments, and in all field placements. Note: Students should be aware that deadlines for field experience forms and TB test results occur the semester prior to placement/enrollment: Fall enrollment – May 15, Winter Session Enrollment – November 15, Spring Enrollment – December 15, Summer I Enrollment – March 30.
- Follow university rules pertaining to social conduct, classroom conduct, and academic integrity
- Maintain ethical, professional, and respectful behavior in all contacts with school children, school personnel, university peers and faculty, and professional colleagues

Students who are denied admission to, or continuation in, any part of the TEP have the right of appeal, using the grade appeal procedure contained in the Student Handbook. All students who are unsuccessful in the TEP have access to alternative career counseling through their Education advisor/mentor and through Career Services.

o Program Retention

**Program Retention**

The TEP requires that students demonstrate knowledge, skills and dispositions toward teaching. All Elementary Education major and Secondary Education minor course work must be completed with a grade of C or better. In addition to a minimum overall GPA of 2.75, students must demonstrate professional behavior throughout their university years. Reference to these criteria can be found in the Teacher Education Handbook. The Education Department reserves the right to counsel students out of the program when appropriate.

o Student Teaching Admission

**Student Teaching Admission**

Admission to the student teaching semester requires a grade of C or better in all Education major and minor courses and a minimum overall GPA of 3.0 or a combined 3.0 in the major and the DPI-Approved Teaching Minor. All students are required to successfully complete the PRAXIS II Content Exam for their certification area(s), and students with Modern Language majors or minors must complete the ACTFL Language Exam prior to application to student teach. All Elementary Education majors seeking licensure are required to successfully complete the Foundations of Reading Test. Students applying for student teaching must submit their Phase II portfolio. Application deadlines are August 25 or January 25 each year. Those students who are not accepted into student teaching have the option to complete a degree in Educational Studies. No teaching license is granted with this major.

The student teaching semester is a full-time, 18-20 week semester-length experience, which follows the semester calendar used by the school in which the student is placed. School calendars are frequently very different from the university calendar. Fall student teachers may begin as early as mid-August, and finish their placement in late January. These students will receive their degrees when student teaching is completed and participate in the commencement ceremony in May following the student teaching semester. Seniors who student teach in the spring may participate in the commencement ceremony in May and receive their diplomas when student teaching is completed. Students who complete their student teaching during the spring semester are required to teach into June to be recommended for a Wisconsin teaching license.

One K-12 semester in the senior year must be reserved solely for student teaching. All required coursework for the major and minor must be completed prior to student teaching. No other courses may be taken during any part of the student teaching semester. The Education Placement Coordinator arranges student teaching assignments in schools within approximately a 30 mile radius of the campus. Students must provide their own transportation to the placement site(s). During the student teaching semester, candidates will complete the edTPA performance based assessment required for licensure in the state of Wisconsin. Candidates must submit an edTPA portfolio for external review and receive a passing score (which is set by the Wisconsin DPI) in order to qualify for licensure.

Due to the complexities of both university and state requirements, students need to meet with an Education advisor very early in their university programs in order to develop a workable program plan of coursework. Carroll University TEPs may be completed in four years only with very careful and early planning. Winter and/or summer attendance may be necessary. Because education students engage in significant amounts of fieldwork in conjunction with the coursework in education, the planning process is also extremely important to permit scheduling of fieldwork. Students need to maintain continual contact with an Education advisor/mentor in order to update their plans and to ensure that any changes in the DPI requirements are incorporated into the student's program.

To obtain a Wisconsin teaching license, students must meet all applicable DPI requirements, including any new requirements, which may be introduced by the DPI while the student is enrolled in a Carroll University program. Any substitutions of courses or variations in a student's program must be approved by the Registrar and by the Department Chair to assure eligibility for a teaching license. Students must complete all TEP requirements and all university degree requirements to receive any teaching license.

Students may complete coursework leading to a Carroll University degree and to a Wisconsin license in any of the following areas:

- o Various Licenses

**License including Early Childhood through Middle Childhood levels  
(approximate ages - birth through 11)**

Students major in Elementary Education and minor in Early Childhood Education. This minor, combined with successful completion of placements in both early childhood and elementary settings, permits students to earn a license to teach in pre-kindergarten through approximately grades five/six.

**Licenses including Early Childhood through Middle Childhood and Special Education  
(approximate ages - birth through 11)**

The Education Department offers dual licensure programs in Elementary Education and Special Education. Candidates may earn Dual Certification in Early Childhood-Middle Childhood Education (#71/777; birth through age 11; PK-approximately grades 5/6) and Early Childhood Special Education (#809; birth through age 8; PK-approximately grade 3).

**License including Middle Childhood through Early Adolescence level  
(approximate ages - 6 through 12 or 13)**

Students major in Elementary Education and extend their license to include the middle-school level (#72/777; grades 1-8). This extension requires completion of a DPI-Approved Teaching Minor in French, German, health, language arts, mathematics, science, social studies, or Spanish. In addition to the PRAXIS II Middle School Content Knowledge Exam, students seeking certification in Health Education must successfully complete the Praxis II Content test in Health. Those completing minors in International Language must successfully complete the ACTFL Language Exam. The extended license also requires successful completion of placements in both elementary and middle school settings.

**Licenses including Middle Childhood through Early Adolescence and Special Education  
(approximate ages - 6 through 12 or 13)**

The Education Department offers dual licensure programs in Elementary Education and Special Education. Candidates may earn Dual Certification in Elementary Regular Education (#72/777; grades 1-8) and Cross-Categorical Special Education (#801; grades 1-8).

### **License in Early Adolescence through Adolescence level (approximate ages - 10 through 21)**

Students who wish to earn a license in early adolescence through adolescence complete the minor in Secondary Education and an approved major in another Carroll University program. They are placed at both middle and high school sites throughout their clinical experiences. Currently, approved majors for secondary licensure are available in biology, chemistry, English, environmental science, and mathematics. Students majoring in a science area are encouraged to complete the additional course-work required to earn the Broad Field Science license. There are also approved majors in history, politics, psychology, and sociology, and students earning majors in these areas are urged to complete the additional coursework required to earn the Broad Field Social Studies license, which will significantly improve their hiring potential upon graduation. See your Education advisor for additional information regarding the Broad Field Science and Broad Field Social Studies licenses.

The Early Adolescence through Adolescence level license allows students to teach secondary school subjects in their approved major after successful completion of student teaching. Students may extend the subject areas they are licensed to teach by completing one or more DPI-Approved secondary education teaching minors. (See available DPI Minors - Secondary). Those in Broad Field Areas may also complete approved concentration areas. In addition, students seeking additional licenses will need to successfully complete the PRAXIS II Content Knowledge or ACTFL Language Exam in the teaching area prior to application to student teach.

### **License in Art, Music, Spanish, or Physical and Health Education (early childhood through adolescence level - a wide range of all ages in public schools)**

Licensure in any of these areas require completion of the Secondary Education minor and an approved major in Spanish, art, music, or physical and health education. Successfully completed placements in both elementary and secondary school settings are required throughout their clinical experiences.

### **Additional License in Adaptive Education**

Students who wish to earn an additional license in adaptive education complete the initial requirements in their major/minor certification areas and the DPI-Approved minor in Adaptive Education. This additional license better prepares the student to meet the diverse needs of all students within the general education classroom.

- **Elementary Education Major**

#### **ELEMENTARY EDUCATION MAJOR**

- Courses in the Major
  - EDU102: Exploration in Education and Society (4 hours)
  - EDU202: Intercultural Context in Education (4 hours)
  - EDU203: Educational Psychology (4 hours)
  - EDU210: Field Experience in Educ I (1 hours)
  - EDU261: Educ of the Exceptional Child (4 hours)
  - EDU270: Using Data and Assessment for Planning, Instruction, and Learning (2 hours)
  - EDU301: Democracy, Schools, and Society (4 hours)
  - EDU311: Field Experience in Education II (1 hours)
  - EDU321: Social Studies in the Elementary /Middle School (2 hours)
  - EDU323: Literacy I: Early Childhood - Middle Childhood (4 hours)
  - EDU324: Literacy II: Middle Childhood - Early Adolescence (4 hours)
  - EDU326: Mathematics in the Elementary/ Middle School (4 hours)
  - EDU327: Science Methods in the Elementary/Middle School (2 hours)
  - EDU360: Teaching and Learning with English Language Learners (4 hours)
  - EDU419: Early Childhood/Elementary Student Teaching (6 hours)
  - EDU420: Early Childhood/Elementary Student Teaching (6 hours)
- Required Support Courses
  - ART223: Creative Arts for Children (2 hours)
  - MUS350: Materials/Techniques Elem Music (2 hours)
  - PED328: Elem Phy Ed Activities and Health Education (3 hours)
- Bachelor of Science for Elementary Education

The requirements for the Bachelor of Science Degree in Elementary Education are:

CMP112, MAT104 and MAT201

- **The Pioneer Core Program**
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Required Core and General Education Program Area Courses

\*Students should consult with their Education advisor to select courses that meet the GE1 and GE 2 course sequence requirements, the Cross-Cultural Development course and Cross-Cultural Experience.

- **ENG170: Writing Seminar (4 hours)**

- MAT104: Foundations of Elementary Mathematics I (4 hours)
- MAT201: Foundations of Elementary Mathematics II (4 hours)
- ENV120: Conservation and Environmental Improvement (4 hours)

In addition:

Elementary Education candidates enroll in POL 141

Education candidates are required to fulfill a fine arts requirement. Completing the Gen Ed F1 course meets this competency.

Education candidates must fulfill biological and physical sciences competency requirement. This includes completing a lab science course. ENV 120 meets these requirements. Students who complete a biological or physical lab science course can enroll in the 2-credit ENV 252 to meet the DPI requirement.

Education candidates are required to take a Literature course to demonstrate competency in literature. Course descriptions will be reviewed to determine whether courses meet the literature support course requirement.

Education students will fulfill the western and nonwestern support course requirement by completing one General Education Course with a Cross Cultural Development designation and completing EDU 202.

Coursework transferred from other institutions to fulfill support course requirements will be subject to review by the Department of Education.

- **Educational Studies Major**

#### **EDUCATIONAL STUDIES MAJOR**

The Educational Studies major provides students with a foundation in preparation for possible education-related careers outside of the field of traditional K-12 classrooms. Through course selection and possible minors, students design a focus relative to their career interests. This non-licensure major is also appropriate for those who desire an educational foundation to supplement their graduate majors or other professional fields of study.

Students in this major complete all Education Foundation coursework. (EDU 102, EDU 202, EDU 203, EDU210, EDU 261, EDU 270, EDU 301, EDU 360)

#### **Additional requirements for Educational Studies include:**

- EDU 391,
- EDU 400, Principles, Theory and Practice in Elementary Educational Studies,
- Education elective (consider 32 Education credits must be completed)

The Educational Studies major culminates with a self-selected experience involving a research-based project connecting the Education Program's Guiding Principles with experiences in an education-related field.

- EDU102: Exploration in Education and Society (4 hours)
- EDU202: Intercultural Context in Education (4 hours)
- EDU203: Educational Psychology (4 hours)
- EDU210: Field Experience in Educ I (1 hours)
- EDU261: Educ of the Exceptional Child (4 hours)
- EDU270: Using Data and Assessment for Planning, Instruction, and Learning (2 hours)
- EDU301: Democracy, Schools, and Society (4 hours)
- EDU360: Teaching and Learning with English Language Learners (4 hours)
- EDU391: Special Topics in Education (1 TO 4 hours)
- EDU400: Capstone in Elementary Educational Studies (4 hours)
- **Special and Elementary Education Dual Certification**

#### **ELEMENTARY EDUCATION AND SPECIAL EDUCATION DUAL CERTIFICATION**

The Teacher Education Program offers Elementary and Special Education with two certification tracks: 1) Special Education/Early Childhood (EC-MC), and 2) Special Education/Elementary Education (MC-EA). The program focuses on research-based models, including effective strategies and interventions to meet the academic, social and emotional needs of all students.

Elementary Education Major – Special Education Emphasis – Dual Certification in Elementary Regular Education (#777) and Early Childhood Special Education (#809) and Dual Certification in Elementary Regular Education (#777) and Cross-Categorical Special Education (#801)

- Core Courses in Elementary Education Major
  - EDU102: Exploration in Education and Society (4 hours)
  - EDU202: Intercultural Context in Education (4 hours)
  - EDU203: Educational Psychology (4 hours)
  - EDU210: Field Experience in Educ I (1 hours)
  - EDU261: Educ of the Exceptional Child (4 hours)
  - EDU270: Using Data and Assessment for Planning, Instruction, and Learning (2 hours)
  - EDU301: Democracy, Schools, and Society (4 hours)
  - EDU360: Teaching and Learning with English Language Learners (4 hours)
- Emphasis in Dual Certification: Elementary Regular Education and Early Childhood Special Education (EC-MC)
  - EDU248: Early Childhood Education: Home, School, and Community Relationships (4 hours)
  - EDU249: Development, Observation, and Assessment of Young Children with Exceptional Needs (4 hours)
  - EDU250: Collaboration and Inclusion (4 hours)
  - EDU312: Field Experience-Adaptive Educ (1 hours)
  - EDU321: Social Studies in the Elementary /Middle School (2 hours)
  - EDU323: Literacy I: Early Childhood - Middle Childhood (4 hours)
  - EDU324: Literacy II: Middle Childhood - Early Adolescence (4 hours)

- EDU326: Mathematics in the Elementary/ Middle School (4 hours)
- EDU327: Science Methods in the Elementary/Middle School (2 hours)
- EDU332: Instructional Strategies for an Inclusive Classroom (4 hours)
- EDU334: Language Development and Disorders of the Exceptional Child (4 hours)
- EDU341: Integrated Curriculum in Early Childhood I - Literacy and Social Emotional Development (4 hours)
- EDU349: Curriculum Development in Special Education/Special Education Methods (4 hours)
- EDU419: Early Childhood/Elementary Student Teaching (6 hours)
- EDU423: Special Education Student Teaching (6 hours)
- Emphasis in Dual Certification: Elementary Regular Education and Cross-Categorical Special Education (MC-EA)
  - EDU264: Collaboration for Academic, Social and Career Development (4 hours)
  - EDU312: Field Experience-Adaptive Educ (1 hours)
  - EDU321: Social Studies in the Elementary /Middle School (2 hours)
  - EDU323: Literacy I: Early Childhood - Middle Childhood (4 hours)
  - EDU324: Literacy II: Middle Childhood - Early Adolescence (4 hours)
  - EDU326: Mathematics in the Elementary/ Middle School (4 hours)
  - EDU327: Science Methods in the Elementary/Middle School (2 hours)
  - EDU330: Introduction to Diagnostic Assessment of Students with Exceptional Needs (4 hours)
  - EDU332: Instructional Strategies for an Inclusive Classroom (4 hours)
  - EDU334: Language Development and Disorders of the Exceptional Child (4 hours)
  - EDU372: Instructional Design and Methodology for Students with Mild to Moderate Learning Disabilities (2 hours)
  - EDU373: Instructional Design and Methodology for Students with Emotional/Behavioral Disabilities (2 hours)
  - EDU419: Early Childhood/Elementary Student Teaching (6 hours)
  - EDU423: Special Education Student Teaching (6 hours)
- Required Support Courses
  - ART223: Creative Arts for Children (2 hours)
  - MUS350: Materials/Techniques Elem Music (2 hours)
  - PED328: Elem Phy Ed Activities and Health Education (3 hours)

- Required Core and General Education Program Area Courses

\*Students should consult with their Education advisor to select courses that meet the GE1 and GE 2 course sequence requirements, the Cross-Cultural Development course and Cross-Cultural Experience.

- ENG170: Writing Seminar (4 hours)
- ENV120: Conservation and Environmental Improvement (4 hours)  
AND -ENV120L: Conservation and Environmental Improvement Laboratory
- MAT104: Foundations of Elementary Mathematics I (4 hours)
- MAT201: Foundations of Elementary Mathematics II (4 hours)

In addition:

Elementary Education candidates enroll in POL 141

Education candidates are required to fulfill a fine arts requirement. Completing the Gen Ed F1 course meets this competency.

Education candidates must fulfill biological and physical sciences competency requirement. This includes completing a lab science course. ENV 120 meets these requirements. Students who complete a biological or physical lab science course can enroll in the 2-credit ENV 252 to meet the DPI requirement.

Education candidates are required to take a Literature course to demonstrate competency in literature. Course descriptions will be reviewed to determine whether courses meet the literature support course requirement.

Education students will fulfill the western and nonwestern support course requirement by completing one General Education Course with a Cross Cultural Development designation and completing EDU 202.

Coursework transferred from other institutions to fulfill support course requirements will be subject to review by the Department of Education.

- **DPI-Approved Teaching Minors - Elementary**

A student majoring in Elementary Education must complete one of the elementary minors listed below.

Caution: The course requirements in most elementary DPI-Approved teaching minors are different from those listed in the catalog for Carroll University minors in the same areas. Therefore, students are strongly advised to obtain information on course requirements in DPI minors from [www.carrollu.edu/programs/education](http://www.carrollu.edu/programs/education) or the Education Office.

The DPI teaching minors certify the Elementary Education Major to teach either at the early childhood through middle childhood level (ages birth through 11) or at the middle childhood through early adolescence level (ages 6 through 12 or 13):

Early Childhood Education Teaching license includes: early childhood through middle childhood level

The following minors license students to teach at the middle childhood through early adolescence level (the student teaching semester must include placement at both the elementary and middle school levels to complete eligibility for the license):

Language Arts  
Mathematics  
Science  
Social Studies

The following licenses require successful completion of the ACTFL Language Exam in addition to the PRAXIS II Middle School Content Knowledge Exam.

French  
German  
Spanish

Students completing a minor in Health Education must successfully complete the Praxis II Content Exam in Health along with the PRAXIS II Test in Middle School Content Knowledge.

◦ **Adaptive Education Minor**

The Adaptive Education Minor prepares a student for an additional license to meet the diverse needs of all students within the general education classroom.

This minor is in addition to the first license and at this time does not require an additional PRAXIS II Content Knowledge Exam.

- Courses in the Minor
  - EDU261: Educ of the Exceptional Child (4 hours)
  - EDU264: Collaboration for Academic, Social and Career Development (4 hours)
  - EDU312: Field Experience-Adaptive Educ (1 hours)
  - EDU330: Introduction to Diagnostic Assessment of Students with Exceptional Needs (4 hours)
  - EDU332: Instructional Strategies for an Inclusive Classroom (4 hours)
  - EDU334: Language Development and Disorders of the Exceptional Child (4 hours)

◦ **Early Childhood Education Minor**

Students who complete coursework for the Elementary Education Major elect the Early Childhood Education Minor to be licensed to teach pre-kindergarten through grade 6 (early childhood through middle childhood level).

- Courses in the Minor
  - EDU248: Early Childhood Education: Home, School, and Community Relationships (4 hours)
  - EDU249: Development, Observation, and Assessment of Young Children with Exceptional Needs (4 hours)
  - EDU341: Integrated Curriculum in Early Childhood I - Literacy and Social Emotional Development (4 hours)
  - EDU342: Integrated Curriculum in Early Childhood II: Physical and Mathematical Knowledge (4 hours)

◦ **Secondary Education Minor**

### SECONDARY EDUCATION

Students complete the Secondary Education Minor and one of the approved majors listed for licensure in the early adolescence through adolescence level. This qualifies the student to teach school subjects related to their major in grades 6 to 12 (early adolescence through adolescence level-approximate ages of 10 through 21). Students who complete the Secondary Education Minor with an approved major in art, music, physical and health education, theatre arts, or Spanish and who have placements in both elementary and secondary school settings during the student teaching semester are eligible for licensure in their subject area in pre-kindergarten through grade 12 (early childhood through adolescence level - a wide range of all ages in public schools).

- Courses in the Minor
  - EDU102: Exploration in Education and Society (4 hours)
  - EDU202: Intercultural Context in Education (4 hours)
  - EDU203: Educational Psychology (4 hours)
  - EDU210: Field Experience in Educ I (1 hours)
  - EDU261: Educ of the Exceptional Child (4 hours)
  - EDU301: Democracy, Schools, and Society (4 hours)
  - EDU303: Instructional Design for the Early Adolescent/Adolescent Learner (2 hours)
  - EDU305: Foundations of Reading (3 hours)
  - EDU306: Literacy in Middle/Secondary School Content Areas (3 hours)
  - EDU311: Field Experience in Education II (1 hours)
  - EDU353: Special Methods in Teaching Secondary School Subjects (2 hours)  
OR -EDU355: Special Methods in Teaching Elementary and Secondary Subjects - Modern Languages (3 hours)
  - EDU360: Teaching and Learning with English Language Learners (4 hours)
  - EDU409: Secondary and K-12 Student Tchng (6 hours)
  - EDU410: Secondary and K-12 Student Tchng (6 hours)

EDU270, Using Data and Assessment for Planning, Instruction, and Learning (2 hours) is recommended.

◦ **Required Core and General Education Program Area Courses**

Students should consult with their Education advisor to select courses that meet the GE1 and GE 2 course sequence requirements, the Cross-Cultural Development course and Cross-Cultural Experience. Distribution courses are determined by the student's major area; however, additional courses in Distribution Areas may need to be completed to fulfill DPI requirements.

- ENG170: Writing Seminar (4 hours)
- HIS105: America to 1877 (4 hours)  
OR -HIS106: America since 1877 (4 hours)  
OR -POL141: Intro to American Politics (4 hours)

In addition:

Education candidates are required to fulfill a fine arts requirement. Completing the Gen Ed F1 course meets this competency.



Education candidates must fulfill biological and physical sciences competency requirement. This includes completing a lab science course. ENV 120 meets these requirements. Students who complete a biological or physical lab science course can enroll in the 2-credit ENV 252 to meet the DPI requirement.

Education candidates are required to take a Literature course to demonstrate competency in literature. Course descriptions will be reviewed to determine whether courses meet the literature support course requirement.

Education candidates are required to fulfill a Western and non-Western competency requirement. Taking a CCD course in the General Education program and successful completion of EDU 202 meets this requirement.

◦ **DPI-Approved Teaching Minors - Secondary**

Students can increase the number of subject areas in which they are licensed and enhance their employment prospects by completing either an additional DPI-approved secondary minor or a set of approved courses, which lead to a DPI Broad Field License. Broad Field licensure is available in either social studies or science. The course requirements for broad field licensure are available from the Education office.

**Caution:** Since many secondary DPI-approved teaching minors must be matched with particular Carroll University majors, students should also contact the Education faculty for advice regarding selection of teaching minors and course requirements. Students majoring or minoring in any natural science subject, or in any social science subject, which they intend to teach, must take ENV 120. Students seeking licensure in a minor must also successfully complete the PRAXIS II Content Knowledge Exam or ACTFL Language Test for that area prior to application to student teach.

DPI-approved secondary minors may be chosen from those listed below:

Biology	Health Education <sup>1</sup>
Chemistry	History
Communication (Speech Education)	Mathematics
Earth and Space Science	Physics
English	Politics
Environmental Studies	Psychology
French	Sociology
Geography	Spanish
German	Theatre Arts

<sup>1</sup> The courses required in these DPI-approved teaching minors are not listed in this catalog. See the Education office for current lists of course requirements

Any education course taken more than seven years prior to enrollment at Carroll University will be subject to the approval of the department chair.

◦ **Courses offered by the program:**

- EDU102: Exploration in Education and Society (4 hours)
- EDU202: Intercultural Context in Education (4 hours)
- EDU203: Educational Psychology (4 hours)
- EDU210: Field Experience in Educ I (1 hours)
- EDU215: Intercultural Immersion Field Experience I (2 hours)
- EDU246: Development, Observation and Assessment in Early Childhood (4 hours)
- EDU248: Early Childhood Education: Home, School, and Community Relationships (4 hours)
- EDU249: Development, Observation, and Assessment of Young Children with Exceptional Needs (4 hours)
- EDU250: Collaboration and Inclusion (4 hours)
- EDU261: Educ of the Exceptional Child (4 hours)
- EDU264: Collaboration for Academic, Social and Career Development (4 hours)
- EDU270: Using Data and Assessment for Planning, Instruction, and Learning (2 hours)
- EDU301: Democracy, Schools, and Society (4 hours)
- EDU303: Instructional Design for the Early Adolescent/Adolescent Learner (2 hours)
- EDU305: Foundations of Reading (3 hours)
- EDU306: Literacy in Middle/Secondary School Content Areas (3 hours)
- EDU311: Field Experience in Education II (1 hours)
- EDU312: Field Experience-Adaptive Educ (1 hours)
- EDU315: Intercultural Immersion Field Experience II (2 hours)
- EDU321: Social Studies in the Elementary /Middle School (2 hours)
- EDU323: Literacy I: Early Childhood - Middle Childhood (4 hours)
- EDU324: Literacy II: Middle Childhood - Early Adolescence (4 hours)
- EDU326: Mathematics in the Elementary/ Middle School (4 hours)
- EDU327: Science Methods in the Elementary/Middle School (2 hours)
- EDU330: Introduction to Diagnostic Assessment of Students with Exceptional Needs (4 hours)
- EDU332: Instructional Strategies for an Inclusive Classroom (4 hours)
- EDU334: Language Development and Disorders of the Exceptional Child (4 hours)
- EDU341: Integrated Curriculum in Early Childhood I - Literacy and Social Emotional Development (4 hours)
- EDU342: Integrated Curriculum in Early Childhood II: Physical and Mathematical Knowledge (4 hours)
- EDU349: Curriculum Development in Special Education/Special Education Methods (4 hours)
- EDU353: Special Methods in Teaching Secondary School Subjects (2 hours)
- EDU355: Special Methods in Teaching Elementary and Secondary Subjects - Modern Languages (3 hours)
- EDU360: Teaching and Learning with English Language Learners (4 hours)
- EDU372: Instructional Design and Methodology for Students with Mild to Moderate Learning Disabilities (2 hours)
- EDU373: Instructional Design and Methodology for Students with Emotional/Behavioral Disabilities (2 hours)
- EDU391: Special Topics in Education (1 TO 4 hours)
- EDU398: Independent Study in Education (1 TO 4 hours)
- EDU400: Capstone in Elementary Educational Studies (4 hours)

- EDU409: Secondary and K-12 Student Tchng (6 hours)
- EDU410: Secondary and K-12 Student Tchng (6 hours)
- EDU419: Early Childhood/Elementary Student Teaching (6 hours)
- EDU420: Early Childhood/Elementary Student Teaching (6 hours)
- EDU422: Special Student Teaching Practicum (1 TO 5 hours)
- EDU423: Special Education Student Teaching (6 hours)

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**College of Arts and Sciences**

Communication and Sociology

Computational and Physical Sciences

Education

[English and Modern Languages](#)

» Undergraduate

History, Political Science and Religious Studies

Life Sciences

Visual and Performing Arts

**Department: English and Modern Languages**

Chairperson: Deirdre Keenan  
 Room: MacAllister 302 Email: [dkeenan@carrollu.edu](mailto:dkeenan@carrollu.edu)  
 Telephone: 262-524-7254 Fax: 262-650-4837

**DEPARTMENT FACULTY**

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**PROGRAMS OF STUDY****Majors**[English and Writing \(40 credits\)](#)[Spanish \(38 credits\)](#)**Minors**[Creative Writing \(20 credits\)](#)[French \(20 credits\)](#)[German \(22 credits\)](#)[Professional Writing \(16 credits\)](#)[Spanish \(22 credits\)](#)**Programs**

Undergraduate  
[English and Writing Major \(40 credits\)](#)  
[Modern Languages and Literatures](#)

**English and Modern Languages**
**Undergraduate**

- » English and Writing Major (40 credits)
- » Modern Languages and Literatures

**Program: Undergraduate**

College of Arts and Sciences  
Department: English and Modern Languages

- **English and Writing Major (40 credits)**

<b>BJ Best</b>	<b>Associate Professor of English and Writing</b>
<b>Timothy Galow</b>	<b>Associate Professor of English and Writing</b>
<b>John Garrison</b>	<b>Associate Professor of English and Writing</b>
<b>Lara Karpenko</b>	<b>Associate Professor of English and Writing</b>
<b>Deirdre Keenan</b>	<b>Department Chair and Professor of English and Writing</b>
<b>Barbara J. Kilgust</b>	<b>Lecturer in English and Writing</b>

We offer a combined major in English and Writing and minors in English, Creative Writing and Professional Writing.

- **English and Writing Major (40 credits)**

**Program Faculty:**

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Timothy Galow, Associate Professor of English and Writing (tgalow@carrollu.edu)

John Garrison, Associate Professor of English and Writing (jgarriso@carrollu.edu)

Lara Karpenko, Associate Professor of English and Writing (lkarpenk@carrollu.edu)

Deirdre Keenan, Department Chair and Professor of English and Writing (dkeenan@carrollu.edu)

**English and Writing Major  
Bachelor of Arts (40 credits)**

**English and Writing Major Goals:**

- 1) To provide students with a body of knowledge about literature and other forms of representation that will allow them to recognize the interrelationship among ideas and provide them with the skills to be lifelong learners.
- 2) To teach students the critical and creative reading, writing and thinking skills that enable them to develop a personal value system and that will inform their understanding of their impact on the world around them.

**Learning Outcomes for English and Writing**

Students graduating with a degree in English and Writing will be able to

- 1) Develop strategies for originating and answering questions about literature.
- 2) Use language specific to the discourses of poetry, drama, fiction and nonfiction.
- 3) Analyze and respond critically to texts using research and bibliographic materials appropriate to the discipline.
- 4) Demonstrate the ability to synthesize and organize ideas.
- 5) Demonstrate knowledge of a writing process that includes reading, research, drafting, editing, and revising, and be able to analyze that process in their own writing and the writing of others.
  - Core Courses
    - I. British and American Literature Survey: Students must complete the following three survey courses. (12 credits)
      - ENG240: British Literature I - Medieval to 1700 (4 hours)
      - ENG241: British Literature II - 1700 to Contemporary (4 hours)
      - ENG242: American Literature: One Nation, Many Voices (4 hours)
    - II. Visual Literacy: students must complete one of the following courses:
      - ENG214: Global Film Theory and Criticism (4 hours)
      - ENG288: Spectacle and Text: Visual Culture 1700 - 1920 (4 hours)
    - III. Diversity/World Literature: students must complete one of the following courses: (4 credits)
      - ENG162: Science Fiction and Gender (4 hours)
      - ENG164: American Indian Literature and Spirituality (4 hours)
      - ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class (4 hours)
      - ENG210: African American Literature (4 hours)

- ENG255: Postcolonial Literature and Theory (4 hours)  
OR -ENG255H: Postcolonial Literature and Theory (4 hours)
- IV. Professional English Requirement. Students must complete one of the following courses (4 credits):
  - ENG120: Introduction to Professional Writing (4 hours)
  - ENG199: Reading and Writing in the Sciences (4 hours)
  - ENG230: Grant Writing (4 hours)
  - ENG260: Professional Writing in the Public Sphere (4 credits hours)
- V. Creative English Requirement. Students must complete one of the following courses (4 credits):
  - ENG205: Interactive Fiction Writing: Stories and Games for Online Environments (4 credits hours)
  - ENG206: Fiction Writing (4 hours)
  - ENG207: Poetry Writing (4 hours)
  - ENG333: Advanced Creative Writing (4 hours)
  - ENG350: Literary Magazine Publishing (4 hours)
- VI. Upper Division Literature requirement: students must complete two of the following courses (8 credits):
  - ENG300: Great Authors (4 hours)
  - ENG303: Milton and Moral Choice - His Age and Ours (4 hours)
  - ENG304: Shakespeare: From Stage to Screen (4 hours)
  - ENG305: Advanced Exposition and the Rhetorical Tradition (4 hours)
  - ENG309: Romantic and Victorian Literature (4 hours)
  - ENG312: Modernism (4 hours)
  - ENG323: Early Modern British Literature (4 hours)
- VII. Senior capstone experience: English 499, advanced literature seminar. (4 credits)
- English majors are required to complete a Modern Language through 202  
*This Modern Language requirement is in addition to the minimal Bachelor of Arts language requirement.*
- Students majoring in English and Writing or minoring in Creative Writing may not receive General Education(F1) credit for writing courses.
- Required Support Courses (Required for primary majors only)  
Students seeking education certification must take the following courses;
  - ENG219: Introduction to Linguistics (4 hours)
  - ENG240: British Literature I - Medieval to 1700 (4 hours)  
OR -ENG304: Shakespeare: From Stage to Screen (4 hours)
  - ENG305: Advanced Exposition and the Rhetorical Tradition (4 hours)
- Bachelor of Arts Requirement

#### Bachelor of Arts Requirement

The requirements for a Bachelor of Arts are:

- Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- MAT106 or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Creative Writing Minor (16 credits)

Note: all credits must be unique to the minor.

- Students majoring in English and Writing or minoring in Creative Writing may not receive General Education(F1) credit for writing courses.
- Required Courses (8 credits)
  - ENG206: Fiction Writing (4 hours)
  - ENG207: Poetry Writing (4 hours)
- Students must choose two of the following (8 credits total):
  - ENG205: Interactive Fiction Writing: Stories and Games for Online Environments (4 credits hours)
  - ENG333: Advanced Creative Writing (4 hours)
  - ENG350: Literary Magazine Publishing (4 hours)
- English Minor (24 credits)

Students must take six courses in English (excluding English 170 and English 140).

At least 8 credits must be at the 300-level in English and no more than 8 credits may be at the 100-level.

- ENG164: American Indian Literature and Spirituality (4 hours)  
OR -ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class (4 hours)  
OR -ENG210: African American Literature (4 hours)  
OR -ENG226: Africa: Literature and Culture of Its Many Nations (4 hours)  
OR -ENG255: Postcolonial Literature and Theory (4 hours)
- ENG214: Global Film Theory and Criticism (4 hours)  
OR -ENG288: Spectacle and Text: Visual Culture 1700 - 1920 (4 hours)
- ENG219: Introduction to Linguistics (4 hours)

- ENG240: British Literature I - Medieval to 1700 (4 hours)
- OR -ENG304: Shakespeare: From Stage to Screen (4 hours)
- ENG242: American Literature: One Nation, Many Voices (4 hours)
- ENG305: Advanced Exposition and the Rhetorical Tradition (4 hours)
- Professional Writing Minor (16 credits)
  - Required Course (4 credits)
    - ENG120: Introduction to Professional Writing (4 hours)
  - Students must complete three of the following courses (12 credits total):
    - ENG199: Reading and Writing in the Sciences (4 hours)
    - ENG230: Grant Writing (4 hours)
    - ENG260: Professional Writing in the Public Sphere (4 credits hours)
    - ENG305: Advanced Exposition and the Rhetorical Tradition (4 hours)
    - ENG350: Literary Magazine Publishing (4 hours)
  - Courses offered by the program:
    - ENG120: Introduction to Professional Writing (4 hours)
    - ENG140: Introductory Language Skills for Liberal Arts (4 hours)
    - ENG162: Science Fiction and Gender (4 hours)
    - ENG164: American Indian Literature and Spirituality (4 hours)
    - ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class (4 hours)
    - ENG170: Writing Seminar (4 hours)
    - ENG170H: Writing Seminar (4 hours)
    - ENG199: Reading and Writing in the Sciences (4 hours)
    - ENG205: Interactive Fiction Writing: Stories and Games for Online Environments (4 credits hours)
    - ENG206: Fiction Writing (4 hours)
    - ENG207: Poetry Writing (4 hours)
    - ENG210: African American Literature (4 hours)
    - ENG211: Intro Literary Study I - Poetry (4 hours)
    - ENG212: Intro to Literary Study II - Short Fiction & Drama (4 hours)
    - ENG214: Global Film Theory and Criticism (4 hours)
    - ENG219: Introduction to Linguistics (4 hours)
    - ENG230: Grant Writing (4 hours)
    - ENG240: British Literature I - Medieval to 1700 (4 hours)
    - ENG241: British Literature II - 1700 to Contemporary (4 hours)
    - ENG242: American Literature: One Nation, Many Voices (4 hours)
    - ENG255: Postcolonial Literature and Theory (4 hours)
    - ENG255H: Postcolonial Literature and Theory (4 hours)
    - ENG260: Professional Writing in the Public Sphere (4 credits hours)
    - ENG288: Spectacle and Text: Visual Culture 1700 - 1920 (4 hours)
    - ENG298: Independent Study in English (1 TO 4 hours)
    - ENG300: Great Authors (4 hours)
    - ENG303: Milton and Moral Choice - His Age and Ours (4 hours)
    - ENG304: Shakespeare: From Stage to Screen (4 hours)
    - ENG305: Advanced Exposition and the Rhetorical Tradition (4 hours)
    - ENG309: Romantic and Victorian Literature (4 hours)
    - ENG312: Modernism (4 hours)
    - ENG323: Early Modern British Literature (4 hours)
    - ENG333: Advanced Creative Writing (4 hours)
    - ENG350: Literary Magazine Publishing (4 hours)
    - ENG380: Internship in English (2 TO 4 hours)
    - ENG398: Independent Study in English (1 TO 4 hours)
    - ENG480: Internship in English (4 hours)
    - ENG497: Guided Senior Thesis (2 hours)
    - ENG499: English Major Capstone-Advanced Literature Seminar (4 hours)
- Modern Languages and Literatures
 

<b>Jessica Boll</b>	<b>Assistant Professor of Spanish</b>
<b>Elena M. DeCosta</b>	<b>Associate Professor of Spanish</b>
<b>Michael Koch</b>	<b>Instructor of German</b>
<b>Katarzyna Rotte</b>	<b>Instructor of German</b>

The Modern Languages program offers a major in Spanish and minors in French, German, and Spanish.

- Spanish Major (38 credits)

Within the framework of a liberal arts education, the Spanish major provides students with direct linguistic contact with a culture different from their own. A culture expresses itself primarily through its language and its literature, and to comprehend another's, one must be able to communicate with the peoples of that culture.

As a general rule, courses are conducted in the target language. All majors should spend a summer, semester or year abroad. Students may choose to study abroad during a summer, semester, or full academic year by applying to the Office of International Education. Recent graduates have studied in Costa Rica, Ecuador, Guatemala, Mexico, and Spain.

*Note: Four year plans are individually developed based on the students' placement level, cohort if applicable, and all open to modification.*

**SPANISH MAJOR WITH:**

**Health & Human Experience Minor    Public Health Minor**

w/ SPA201

w/ SPA201

w/ SPA202

w/ SPA202

w/ SPA301

w/ SPA301

**SPANISH DOUBLE MAJOR WITH:**

**Pre-Occupational Therapy**

**Pre-Physical Therapy**

**Pre-Physician Assistant Public Health**

w/ SPA201	w/ SPA201	w/ SPA201	w/ SPA201
w/ SPA202	w/ SPA202	w/ SPA202	w/ SPA202
w/ SPA301	w/ SPA301	w/ SPA301	w/ SPA301

**SPANISH MINOR WITH:****Nursing Major - Cohort A**

w/ SPA201  
w/ SPA202  
w/ SPA301

**Nursing Major - Cohort B Public Health Major**

w/ SPA201      w/ SPA201  
w/ SPA202      w/ SPA202  
w/ SPA301      w/ SPA301

**Learning Outcomes for Spanish**

A student successfully completing a Spanish major at Carroll University:

- Can understand with ease virtually everything heard or read.
- Can summarize information from spoken and written sources and reconstruct arguments in a coherent presentation.
- Can express oneself spontaneously, fluently and precisely, differentiating meaning in complex situations.
- Can summarize cultural texts (literary and sociopolitical) intended for native speakers to support analysis, reflection, and research related to global issues while integrating cross-cultural perspectives.
- Can utilize a wide range of sources on cultural themes, including international and domestic sources in the target language (e.g., heritage/immigrant community newspapers, radio and TV broadcasts, or websites).
- Can utilize information from a variety of sources in the target language, including sources produced by writers in the target culture for target culture readers and listeners as well as sources produced by writers in the base culture (e.g., émigré community, for émigré readers and listeners) in order to create one's own argument, drawing appropriately on research for evidence of cultural significance.
- Can balance perspectives across cultures and evaluate sources of target culture information.
  - o Core Courses
    - o SPA201: Intermediate Spanish I (4 hours)
    - o SPA202: Intermediate Spanish II (4 hours)
    - o SPA300: Introduction to Spanish Phonetics and Phonology (4 hours)
    - o SPA301: Conversation and Composition I (4 hours)
    - o SPA302: Conversation & Composition II (4 hours)
    - o SPA305: Spanish for the Professions (4 hours)
    - OR -SPA325: Spanish for the Professions (4 hours)
    - o SPA307: Latin American Civilization (4 hours)
    - o SPA308: Hispanic Civilization (4 hours)
    - o SPA401: Advanced Conversation (2 hours)

One elective course in Spanish (Usually satisfied with Spanish 480 or Spanish 498).

- o Capstone Experience
  - o SPA480: Internship/Capstone Internship in Spanish (2 TO 4 hours)
  - OR -SPA498: Indep Directed/Capstone Study (2 TO 4 hours)
- o Bachelor of Arts Requirement

**Bachelor of Arts Requirement**

The requirements for a Bachelor of Arts are:

- o Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- o \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- o MAT106 or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- o The Pioneer Core Program
  - o Cross-Cultural Component
  - o Distribution Component
  - o GE1 and GE2 Courses
  - o Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- o B.S. Spanish - Pre-Physical Therapy

**B.S. Spanish - Pre-Physical Therapy**

[Click here](#) for an example of an academic plan for Spanish - Pre-Physical Therapy with a SPA102 placement.

[Click here](#) for an example of an academic plan for Spanish - Pre-Physical Therapy with a SPA201 placement.

- **Spanish Minor (22 credits)**
  - Core Courses
    - SPA201: Intermediate Spanish I (4 hours)
    - SPA202: Intermediate Spanish II (4 hours)
    - SPA301: Conversation and Composition I (4 hours)
    - SPA302: Conversation & Composition II (4 hours)
    - SPA305: Spanish for the Professions (4 hours)
    - OR -SPA307: Latin American Civilization (4 hours)
    - OR -SPA308: Hispanic Civilization (4 hours)
    - OR -SPA325: Spanish for the Professions (4 hours)
    - SPA401: Advanced Conversation (2 hours)

The Education Department requires students seeking MC-EA (Middle Childhood through Early Adolescence) or EA-A (Early Adolescence through Adolescence) licensure in Spanish to complete Education 355, Special Methods in Teaching Modern Languages.

- **French Minor (20 credits)**

A student successfully completing a French minor at Carroll University:

1. Attains intermediate/advanced to advanced-level speaking, listening, writing, reading proficiency.
2. Is able to express her/himself in written and spoken French in most everyday situations with mistakes that do not hinder meaning.
3. Understands French-speaking individuals in most everyday situations, as well as written materials in French covering topics in various genres.
4. Is knowledgeable with regard to histories, cultures, customs, major political and literary events and movements, and contemporary society and issues in countries where French is the dominant language.
5. Has participated throughout her/his studies in academic, cultural or social activities off-campus, in and beyond the Carroll University and Waukesha communities, ideally through study abroad or substantial immersion experience in the target language.

- Core Courses
  - FRE201: Intermediate French I (4 hours)
  - FRE202: Intermediate French II (4 hours)
  - FRE301: Conversation & Composition (4 hours)
  - FRE307: French Civilization (4 hours)
  - FRE318: Topics in French and Francophone Literatures (4 hours)

*The Paris NCEP may not be used to complete the minor.*

The Education department requires students seeking MC-EA (Middle Childhood through Early Adolescence) or EA-A (Early Adolescence through Adolescence) licensure in French to complete Education 355: Special Methods in Teaching Modern Languages.

- **German Minor (22 credits)**

A student successfully completing a German minor at Carroll University:

1. Attains intermediate/advanced to advanced-level speaking, listening, writing, reading proficiency.
2. Is able to express her/himself in written and spoken German in most everyday situations with mistakes that do not hinder meaning.
3. Understands German-speaking individuals in most everyday situations, as well as written materials in German covering topics in various genres.
4. Is knowledgeable with regard to histories, cultures, customs, major political and literary events and movements, and contemporary society and issues in countries where German is the dominant language.
5. Has participated throughout her/his studies in academic, cultural or social activities off-campus, in and beyond the Carroll University and Waukesha communities, ideally through study abroad or substantial immersion experience in the target language.

- Core Courses
  - GER201: Intermediate German I (4 hours)
  - GER202: Intermediate German II (4 hours)
  - GER301: Conversation & Composition (4 hours)
  - GER318: Topics in German Culture and Literature (4 hours)
  - GER401: Advanced Conversation (2 hours)

(Although not required, students are strongly encouraged to enroll in HIS 329, The German Experience.)

Note: Students taking HIS 329 or POL 329, The German Experience, and/or NCEP 321, Contemporary Germany: Its Culture, Economy, and Politics, and planning to use those courses for credit toward their German language minor need to work with the course instructor in the semester before they plan to take the course to develop a plan for ways to adapt their coursework to incorporate and demonstrate appropriate use of the language.

The Education department requires students seeking MC-EA (Middle Childhood through Early Adolescence) or EA-A (Early Adolescence through Adolescence) licensure in German to complete Education 355, Special Methods in Teaching Modern Languages.

- **Notes on Modern Languages**

To begin in any course other than 101 in Modern Languages, students need to take the placement test in French, German, or Spanish prior to the start of the semester. Placement tests will also be administered during the first weeks of classes, and placement can be changed. Any student who needs the placement test at other times should contact the program faculty to arrange a time for administration of the test. Please consult program faculty for guidance in registering for the first language course. Either placement into a course numbered 301 or higher in any of the three languages, or completion of a 202 course will demonstrate competency in that language. In order to satisfy the language requirement for the Bachelor of Arts degree, a student must take 8 credits in a modern language (MLL) other than English.



A student enrolled at Carroll in a degree program, who has completed work in French, German, or Spanish language courses in high school and then enrolls in the appropriate course at Carroll (as determined by the program) and completes that course with a grade of B or higher will receive credit toward graduation for the previously completed work. This must be the student's first enrollment in an advanced university-level course. Special provisions are made for native and near-native speakers of French, German, and Spanish.

Teaching majors and minors consist of the specific modern language courses listed below plus (1) an immersion experience, e.g., New Cultural Experiences Program [NCEP] or study abroad, (2) successful completion of a language competency exam in the semester prior to the semester of student teaching, and (3) the requirements in the Teacher Education Program.

The Education department requires students seeking MC-EA (Middle Childhood through Early Adolescence) or EA-A (Early Adolescence through Adolescence) licensure in French, German, or Spanish to complete Education 355, Special Methods in Teaching Modern Languages.

- o Courses offered by the program:
  - o FRE101: Elementary French I (4 hours)
  - o FRE102: Elementary French II (4 hours)
  - o FRE201: Intermediate French I (4 hours)
  - o FRE202: Intermediate French II (4 hours)
  - o FRE298: Independent Studies in French (2 TO 4 hours)
  - o FRE301: Conversation & Composition (4 hours)
  - o FRE307: French Civilization (4 hours)
  - o FRE318: Topics in French and Francophone Literatures (4 hours)
  - o FRE398: Independent Studies in French (2 TO 4 hours)
  - o GER101: Elementary German I (4 hours)
  - o GER102: Elementary German II (4 hours)
  - o GER201: Intermediate German I (4 hours)
  - o GER202: Intermediate German II (4 hours)
  - o GER298: Independent Studies in German (2 TO 4 hours)
  - o GER301: Conversation & Composition (4 hours)
  - o GER318: Topics in German Culture and Literature (4 hours)
  - o GER398: Independent Studies in German (1 TO 4 hours)
  - o GER401: Advanced Conversation (2 hours)
  - o GER498: Independent Directed Study (2 TO 4 hours)
  - o SPA101: Elementary Spanish I (4 hours)
  - o SPA102: Elementary Spanish II (4 hours)
  - o SPA201: Intermediate Spanish I (4 hours)
  - o SPA202: Intermediate Spanish II (4 hours)
  - o SPA290: Spanish for Health and Human Services (2 hours)
  - o SPA298: Independent Studies in Spanish (4 hours)
  - o SPA300: Introduction to Spanish Phonetics and Phonology (4 hours)
  - o SPA301: Conversation and Composition I (4 hours)
  - o SPA302: Conversation & Composition II (4 hours)
  - o SPA305: Spanish for the Professions (4 hours)
  - o SPA307: Latin American Civilization (4 hours)
  - o SPA308: Hispanic Civilization (4 hours)
  - o SPA325: Spanish for the Professions (4 hours)
  - o SPA398: Independent Studies in Spanish (2 TO 4 hours)
  - o SPA401: Advanced Conversation (2 hours)
  - o SPA480: Internship/Capstone Internship in Spanish (2 TO 4 hours)
  - o SPA498: Indep Directed/Capstone Study (2 TO 4 hours)

## Spanish 102 Pre-PT

FALL-1			SPRING-1			SUMMER-1		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
CCS100	CULTURAL SEMINAR	4	PHY101	INTRO PHYSICS I	4	GE1	GENERAL EDUCATION DISTR I	4
ENG170	WRITING SEMINAR	4	PSY101	INTRODUCTORY PSYCHOLOGY	4	SPA 202	INTERMEDIATE SPANISH II	4
SPA102	ELEMENTARY SPANISH II	4	SPA 201	INTERMEDIATE SPANISH I	4			0
ANP130	INTRO A & P I	4	ANP140	INTRO A & P II	4			0
TOT		16	TOT		16	TOT		8
CUM		16	CUM		32	CUM		40
FALL-2			SPRING-2			SUMMER-2		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PHY 102	INTRO PHYSICS II	4	GE2	GENERAL ED DISTRIBUTION	4	CMP112	COMPUTATIONAL THINKING I	4
CHE101	GENERAL CHEMISTRY I	4	CHE102	GENERAL CHEMISTRY II	4		Student must complete SPA398	4
REL106	UNDERSTANDING RELIGION	4	HIS112	INTRO TO LATIN AMER HISTORY	4		Independent study course in	
SPA301/CC	CONVERSATION & COMPOSITION I (CROS	4	SPA302	CONVERSATION & COMPOSITION II	4	SPA398 or	Spanish or SPA307 or 308 to fulfill	
		0	CCS300	CROSS CULTURAL EXPERIENCE	2	SPA307 or	Spanish major requirement.	
		0			0	SPA308		
TOT		16	TOT		18	TOT		8
CUM		56	CUM		74	CUM		82
FALL-3			SPRING-3			SUMMER-3		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
ENG 255	POSTCOLONIAL LIT & THEORY	4	ANP403	ADV. PHYSIOLOGY	4			0
ANP402	ADV. ANATOMY	4	SPA480	INTERNSHIP/CAPSTONE IN SPANISH	4			0
SPA307 or	LATIN AMERICAN CIVILIZATION or HISPAN	4	SPA305	SPANISH FOR THE PROFESSIONS	4			0
CMP 114	COMPUTATIONAL THINKING II-data analy	4	SPA318	TOPICS IN HISPANIC CULT, LIT, HIS, P	4			0
CCS400	Global Perspective Colloquium	2	SPA401	ADVANCED CONVERSATION	2			0
	(*SPA307 is only offered in odd years &	0			0			0
	SPA 308 in even; see summer 2 for	18	TOT		18	TOT		0
TOT		18	CUM		116	CUM		116
CUM		98						
FALL-4			SPRING-4			SUMMER-4		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH400	FOUNDATIONS OF PROF. PRACTICE	3	PTH405	NEUROSCIENCE	3	PTH 500	PHYSICAL AGENTS	4
PTH401	STATISTICAL & RESEARCH METHODS	3	PTH411	FOUNDATIONS OF CLINICAL RESEAR	2	PTH 501	ADVANCED PATIENT MANAGEMENT	3
PTH404	BIOMECHANICS	3	PTH412	TESTS AND MEASURES	3	PTH 512	EVIDENCE INTO PRACTICE	2
PTH406	EXERCISE PHYSIOLOGY	3	PTH414	ADVANCED KINESIOLOGY	3	PTH 520	PROFESSIONAL PRACTICE I	2
PTH408	INTRODUCTION TO PATIENT MANAGEME	3	PTH416	THERAPEUTIC EXERCISE	4	PTH 521	TEACHING LABORATORY PRACTICUM	2
					0	PTH 525	SYSTEMS DEVELOPMENT	2
TOT		15	TOT		15	TOT		15
CUM		131	CUM		146	CUM		161
FALL-5			SPRING-5			SUMMER-5		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 507	ORTHOPEDICS I	2	PTH 506	MOTOR CONTROL	4	PTH 611	CLINICAL INTERNSHIP II (12 WKS)	12
PTH 509	INTRODUCTION TO PHARMACOLOGY	2	PTH 508	GENERAL MEDICINE I	4			0
PTH 515	CLINICAL INTERNSHIP I (FINAL 7 WKS)	7	PTH 517	ORTHOPEDICS II	4			0
PTH 516	HUMAN MOTOR LEARNING (FINAL 7 WKS	2	PTH 522	EVIDENCE BASED DECISION MAKING	2			0
PTH 535	APPLIED HUMAN BEHAVIOR (ENTIRE SEM	1	PTH 530	PROFESSIONAL PRACTICE II	2			0
		0	PTH 531	TEACHING LABORATORY PRACTICUM	2			0
TOT		14	TOT		18	TOT		12
CUM		175	CUM		193	CUM		205
FALL-6			SPRING-6			SUMMER-6		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 606	NEUROLOGICAL SYSTEM DISORDERS	4	PTH614	CLINICAL INTERNSHIP III (16 WKS)	16			0
PTH 607	ORTHOPEDICS III	3						0
PTH 608	GENERAL MEDICINE II	4			0			0
PTH 620	PROFESSIONAL PRACTICE III	2			0			0
PTH 621	TEACHING LABORATORY PRACTICUM III	2			0			0
PTH 635	PEDIATRIC CARE	2			0			0
TOT		17	TOT		16			0
CUM		222	CUM		238	CUM		238

## Spanish 201 Pre-PT

FALL-1			SPRING-1			SUMMER-1		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
CCS100	CULTURAL SEMINAR	4	PHY101	INTRO PHYSICS I	4	GE1	GENERAL EDUCATION DISTR I	4
ENG170	WRITING SEMINAR	4	PSY101	INTRODUCTORY PSYCHOLOGY	4			0
SPA201	INTERMEDIATE SPANISH I	4	SPA202	INTERMEDIATE SPANISH II	4			0
ANP130	INTRO A & P I	4	ANP140	INTRO A & P II	4			0
TOT		16	TOT		16	TOT		4
<b>CUM</b>		<b>16</b>	<b>CUM</b>		<b>32</b>	<b>CUM</b>		<b>36</b>
FALL-2			SPRING-2			SUMMER-2		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PHY 102	INTRO PHYSICS II	4	GE2	GENERAL ED DIST	4	CMP112	COMPUTATIONAL THINKING I	4
CHE101	GENERAL CHEMISTRY I	4	CHE102	GENERAL CHEMISTRY II	4		Student must complete SPA398	4
REL106	UNDERSTANDING RELIGION	4	HIS112	INTRO TO LATIN AMER HISTORY	4		Independent study course in	
SPA301/CC	CONVERSATION & COMPOSITION I (CROSS-	4	SPA302	CONVERSATION & COMPOSITION	4	SPA398 or	Spanish or SPA307 or 308 to fulfill	
		0	CCS300	CROSS CULTURAL EXPERIENCE	2	SPA307 or	Spanish major requirement.	
		0			0	SPA308		
TOT		16	TOT		18	TOT		8
<b>CUM</b>		<b>52</b>	<b>CUM</b>		<b>70</b>	<b>CUM</b>		<b>78</b>
FALL-3			SPRING-3			SUMMER-3		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
ENG 255	POSTCOLONIAL LIT & THEORY	4	ANP403	ADV. PHYSIOLOGY	4			0
ANP402	ADV. ANATOMY	4	SPA480	INTERNSHIP/CAPSTONE IN SPANI	4			0
SPA307 or	LATIN AMERICAN CIVILIZATION or HISPANIC	4	SPA305	SPANISH FOR THE PROFESSIONS	4			0
CMP 114	COMPUTATIONAL THINKING II-data analysis	4	SPA318	TOPICS IN HISPANIC CULT, LIT, HIS	4			0
CCS400	Global Perspective Colloquium	2	SPA401	ADVANCED CONVERSATION	2			0
	(*SPA307 is only offered in odd years &	0			0			0
TOT	SPA 308 in even; see summer 2 for	18	TOT		18	TOT		0
<b>CUM</b>		<b>94</b>	<b>CUM</b>		<b>112</b>	<b>CUM</b>		<b>112</b>
FALL-4			SPRING-4			SUMMER-4		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH400	FOUNDATIONS OF PROF. PRACTICE	3	PTH405	NEUROSCIENCE	3	PTH 500	PHYSICAL AGENTS	4
PTH401	STATISTICAL & RESEARCH METHODS	3	PTH411	FOUNDATIONS OF CLINICAL RESE	2	PTH 501	ADVANCED PATIENT MANAGEMENT	3
PTH404	BIOMECHANICS	3	PTH412	TESTS AND MEASURES	3	PTH 512	EVIDENCE INTO PRACTICE	2
PTH406	EXERCISE PHYSIOLOGY	3	PTH414	ADVANCED KINESIOLOGY	3	PTH 520	PROFESSIONAL PRACTICE I	2
PTH408	INTRODUCTION TO PATIENT MANAGEMEN	3	PTH416	THERAPEUTIC EXERCISE	4	PTH 521	TEACHING LABORATORY PRACTICUM	2
		0			0	PTH 525	SYSTEMS DEVELOPMENT	2
TOT		15	TOT		15	TOT		15
<b>CUM</b>		<b>127</b>	<b>CUM</b>		<b>142</b>	<b>CUM</b>		<b>157</b>
FALL-5			SPRING-5			SUMMER-5		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 507	ORTHOPEDICS I	2	PTH 506	MOTOR CONTROL	4	PTH 611	CLINICAL INTERNSHIP II (12 WKS)	12
PTH 509	INTRODUCTION TO PHARMACOLOGY	2	PTH 508	GENERAL MEDICINE I	4			0
PTH 515	CLINICAL INTERNSHIP I (FINAL 7 WKS)	7	PTH 517	ORTHOPEDICS II	4			0
PTH 516	HUMAN MOTOR LEARNING (FINAL 7 WKS)	2	PTH 522	EVIDENCE BASED DECISION MAKII	2			0
PTH 535	APPLIED HUMAN BEHAVIOR (ENTIRE SEMES	1	PTH 530	PROFESSIONAL PRACTICE II	2			0
		0	PTH 531	TEACHING LABORATORY PRACTIC	2			0
TOT		14	TOT		18	TOT		12
<b>CUM</b>		<b>171</b>	<b>CUM</b>		<b>189</b>	<b>CUM</b>		<b>201</b>
FALL-6			SPRING-6			SUMMER-6		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 606	NEUROLOGICAL SYSTEM DISORDERS	4	PTH614	CLINICAL INTERNSHIP III (16 WKS)	16			0
PTH 607	ORTHOPEDICS III	3						0
PTH 608	GENERAL MEDICINE II	4			0			0
PTH 620	PROFESSIONAL PRACTICE III	2			0			0
PTH 621	TEACHING LABORATORY PRACTICUM III	2			0			0
PTH 635	PEDIATRIC CARE	2			0			0
TOT		17	TOT		16			0
<b>CUM</b>		<b>218</b>	<b>CUM</b>		<b>234</b>	<b>CUM</b>		<b>234</b>

**College of Arts and Sciences**

Communication and Sociology  
 Computational and Physical Sciences  
 Education  
 English and Modern Languages  
[History, Political Science and Religious Studies](#)  
 » Undergraduate  
 Life Sciences  
 Visual and Performing Arts

**Department: History, Political Science and Religious Studies**

Chairperson: James Grimshaw  
 Room: MacAllister 002B Email: [jgrimsha@carrollu.edu](mailto:jgrimsha@carrollu.edu)  
 Telephone: 262-524-7293 Fax: 262-650-4837

**DEPARTMENT FACULTY**

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Charles Byler	Professor of History	History	<a href="mailto:cbyler@carrollu.edu">cbyler@carrollu.edu</a>
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Pascale Engelmajer	Assistant Professor of Religious Studies	Religious Studies	<a href="mailto:pengelma@carrollu.edu">pengelma@carrollu.edu</a>
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Kimberly Redding	Associate Professor of History	History	<a href="mailto:redding@carrollu.edu">redding@carrollu.edu</a>
Max Rondolino	Assistant Professor of Philosophy	Philosophy, Political Science and Economics	<a href="mailto:mrondoli@carrollu.edu">mrondoli@carrollu.edu</a>

**PROGRAMS OF STUDY****Majors**

[Global Studies \(48 credits\)](#)  
[History \(36 credits\)](#)  
[Philosophy, Political Science and Economics \(48 credits\)](#)  
[Political Science \(44 credits\)](#)  
[Religious Studies \(36 credits\)](#)

**Minors**

[Global Studies \(24 credits\)](#)  
[History \(24 credits\)](#)  
[Medieval and Renaissance Studies \(20 credits\)](#)  
[Philosophy \(20 credits\)](#)  
[Political Science \(20 credits\)](#)  
[Religious Studies \(20 credits\)](#)

**Programs**

Undergraduate  
[Global Studies](#)  
[History](#)  
[Philosophy, Political Science and Economics](#)  
[Political Science](#)  
[Religious Studies](#)  
[Medieval and Renaissance Studies Minor](#)  
[Philosophy Minor \(20 credits\)](#)

**History, Political Science and Religious Studies****Undergraduate**

- » Global Studies
- » History
- » Philosophy, Political Science and Economics
- » Political Science
- » Religious Studies
- » Medieval and Renaissance Studies Minor
- » Philosophy Minor (20 credits)

**Program: Undergraduate**

College of Arts and Sciences  
Department: History, Political Science and Religious Studies

- **Global Studies**

<b>Kelly O'Reilly</b>	<b>Assistant Professor of Political Science</b>
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The Global Studies Program offers a major and a minor in global studies and in political science.

- **Global Studies Major (48 credits)**

<b>Dennis Debrecht</b>	<b>Associate Professor of Economics</b>
<b>Pascale Engelmajer</b>	<b>Assistant Professor of Religious Studies</b>
<b>Lilly Goren</b>	<b>Professor of Political Science</b>
<b>Kevin Guilfooy</b>	<b>Associate Professor of Philosophy</b>
<b>Deirdre Keenan</b>	<b>Professor of English</b>
<b>Kimberly Redding</b>	<b>Associate Professor of History</b>
<b>Carol Tallarico</b>	<b>Professor of Economics</b>

Global studies is an interdisciplinary major that gives students a global perspective on political and economic problems, preparing them for careers in government, business and the nonprofit sector. Students are encouraged to become fluent in a modern foreign language, and the faculty works to arrange for students to spend a semester or year of study abroad.

**Learning Outcomes for Global Studies**

Upon completing the global studies major students should:

1. View global challenges from a perspective that integrates political, historical, economic, cultural and normative perspectives.
2. Be able to articulate the primary theoretical frameworks used to understand the global arena.
3. Understand the role of important state and non-state actors (international and non-governmental groups and organizations) in the global arena.
4. Demonstrate strong communications skills (reading, writing and listening) as well as analytical and critical skills that enable them to dissect and solve complex problems effectively.
5. Demonstrate the capacity to conduct independent research (identify and develop a research question, design research strategies based on the application of quantitative and/or qualitative methodologies, access and interpret information from print and electronic sources, write and present a critical and analytical argument).

- **Core Courses**

- **POL103: Politics of the World's Nations (4 hours)**
- **POL155: Contemporary Global Politics (4 hours)**
- **POL200: Social Science Inquiry (4 hours)**
- **POL276: Democracy, Globalization, and International Governance (4 hours)**
- **POL399: Capstone in Political Science and Global Studies (4 hours)**

- **Elective Courses: (7 courses or 28 credits)**

*Students must complete at least one course from each track below. In addition, students select a track of concentration taking an additional four courses within that track. Of those four courses within that track, at least two courses must be at the 200 or 300 level and one course must be a 200 or 300 level course coming from History, Religious Studies or Philosophy.*

- **Regional Track**

- **HIS104: Europe and the Modern World (4 hours)**
- **HIS110: History of Modern China (4 hours)**
- **HIS112: Intro to Latin America History (4 hours)**
- **HIS329: The German Experience (4 hours)**
- **ENG164: American Indian Literature and Spirituality (4 hours)**
- **ENG226: Africa: Literature and Culture of Its Many Nations (4 hours)**
- **POL301: Politics of Developed Nations (4 hours)**
- **POL303: Politics of Developing Nations (4 hours)**
- **REL306: Asian Religions (4 hours)**

- **Issues Track**

- **ENV138: Cultural Geography (4 hours)**
- **ENV160: World Regional Geography (4 hours)**
- **ENV222: Environmental Sustainability (4 hours)**
- **EUS391: Topics in European Studies (4 hours)**
- **HIS108: Understanding Our Contemporary World (4 hours)**
- **PBH102: Global Health (4 hours)**

- POL285: International Conflict and Security (4 hours)
- POL291: Topics in Politics (2 TO 4 hours)
- POL321: International Law (4 hours)
- POL391: Topics in Politics (4 hours)
- Economics Track
  - ECO124: Principles of Economics I - Microeconomics (4 hours)
  - ECO225: Principles of Economics II - Macroeconomics (4 hours)
  - ECO306: Microeconomic Theory (4 hours)
  - ECO307: Macroeconomic Theory (4 hours)
  - ECO363: International Economics (4 hours)
  - PHI205: Philosophy, Politics, and Economics (4 hours)
- Bachelor of Arts Requirement

#### Bachelor of Arts Requirement

The requirements for a Bachelor of Arts are:

- Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- MAT106 or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- Global Studies Minor (24 credits)

To complete a minor in Global Studies, students will take the 3 core courses and then choose 3 electives from one of the tracks in the Global Studies major with 2 of the 3 being courses at the 200 or 300 level.

A student interested in international business is able to pursue both an emphasis in Business and a Global Studies minor with an emphasis in international business. Regardless of track/emphasis, all students are required to take the core courses.

- Core Courses
  - POL103: Politics of the World's Nations (4 hours)
  - POL155: Contemporary Global Politics (4 hours)
  - POL276: Democracy, Globalization, and International Governance (4 hours)
- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- History

**Charles A. Byler**

**Professor of History**

**Scott Hendrix**

**Associate Professor of History**

**Abigail M. Markwyn**

**Associate Professor of History**

**Kimberly A. Redding**

**Associate Professor of History**

The History Program offers a major in history and a minor in history.

#### History Major (36 credits) Bachelor of Arts

The nine-course history major serves students who not only seek an education in the liberal arts, but who also realize the value of history for understanding themselves and their world. Because the study of history enhances analytical, communicative and critical thinking skills, and because our courses often encourage an interdisciplinary approach, a history major prepares students for careers in research, public service, education and/or the private sector, while also offering a strong foundation for advanced study.

#### Learning Outcomes for History

Upon successful completion of major requirements students will be able to:

1. Employ tools of historical analysis such as cause and effect, sequence and change over time to explain past experiences and developments.
2. Define a historical question and use appropriate methodologies to develop and evaluate possible answers.
3. Find evidence and evaluate primary and secondary sources to form sustainable conclusions in a well-argued paper.
4. Articulate and/or resolve conflicting interpretations and explain the changing nature of historical inquiry.
5. Communicate original, convincing ideas in well-organized oral and written formats.
6. Identify and explain central themes and problems of the Western World.
7. Identify and explain central themes and problems of a non-western culture.

- Core Courses
  - I. Three courses, with one course in each area, from the following:
    - A
      - HIS103: Roots of the Western World (4 hours)
      - HIS104: Europe and the Modern World (4 hours)
    - B
      - HIS105: America to 1877 (4 hours)

- HIS106: America since 1877 (4 hours)
- C
  - HIS107: Understanding the Premodern World (4 hours)
  - HIS108: Understanding Our Contemporary World (4 hours)
  - HIS110: History of Modern China (4 hours)
  - HIS112: Intro to Latin America History (4 hours)
- II. History 200, Workshop for Historians
  - HIS200: Workshop for Historians (4 hours)
- III. Two courses at the 200 level from the following:
  - HIS200: Workshop for Historians (4 hours)
  - HIS203: The American Civil War (4 hours)
  - HIS210: Hist-American Foreign Relations (4 hours)
  - HIS213: Women in American History (4 hours)
  - HIS215: American Encounters: Natives, Africans, and Europeans in the Americas, 1350-1750 (4 hours)
  - HIS224H: The World Since 1945 (4 hours)
  - HIS225H: Medieval Europe, China, and the Islamic Crescent (4 hours)
  - HIS254: Topics in Medieval European History (4 hours)
  - HIS257: Europe's Civil War: 1900-1950 (4 hours)
  - HIS280: Internship in History (2 TO 4 hours)
  - HIS291: Topics in History (2 TO 4 hours)
  - HIS298: Independent Study in History (2 TO 4 hours)
  - Other pre-approved courses
- IV. Two courses at the 300 level from the following:
  - HIS301: The Forging of a Nation - The Colonial and Revolutionary Experience in North America (4 hours)
  - HIS305: Recent America (4 hours)
  - HIS316: Renaissance and Reformation Europe (4 hours)
  - HIS318: American Indian History (4 hours)
  - HIS329: The German Experience (4 hours)
  - HIS391: Topics in History (4 hours)
  - HIS398: Independent Study in History (2 TO 4 hours)
  - Other pre-approved courses

Note:

- All 300-level classes are conceived as research courses in which the major focus will be on research methodology and utilization of primary sources to produce a work of serious scholarship.
- At least one of the 4 courses chosen to fulfil III and IV above must be a 200 or 300-level course in Political Science, Philosophy, or Religious Studies.
- V. History 499, Capstone: Senior Seminar for Historians

**Note:** HIS 499 requires students to submit a portfolio of written work. History majors should keep copies of papers and projects from their other classes for this purpose.

**Required Support Courses** (Required for primary majors only)

Completion of a Modern Language through 201.

**Teacher Certification**

The department recommends that students majoring in history who seek certification to teach at the early adolescence through adolescence (formerly 6 - 12) level complete the requirements for the Broad Field Social Studies license. Please contact a history faculty member regarding these requirements.

The State of Wisconsin requires content area examinations (Praxis II) in order to receive certification to teach at the early adolescence through adolescence level and to adequately demonstrate competence. For this reason, students seeking to teach history at this level are urged to take History 103, 104, 105, 106 and 108.

- Pre-Physical Therapy 4 year plan

[Click here](#) for a four year plan with a major in History.

- Courses required to complete a 4 year Pre-Physical Therapy Program
  - ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
  - ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
  - ANP402: Human Anatomy (4 hours)  
AND -ANP402L: Human Anatomy Laboratory
  - ANP403: Human Physiology (4 hours)  
AND -ANP403L: Human Physiology Laboratory
  - CHE101: General Chemistry (4 hours)  
AND -CHE101L: General Chemistry Laboratory
  - CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
  - PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
  - PSY101: Introductory Psychology (4 hours)

- Bachelor of Arts Requirement

**Bachelor of Arts Requirement**



The requirements for a Bachelor of Arts are:

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- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- **MAT106** or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- **The Pioneer Core Program**
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- **History Minor (24 credits)**
  - I. Three courses, with one course in each area, from the following:
    - A
      - HIS103: Roots of the Western World (4 hours)
      - HIS104: Europe and the Modern World (4 hours)
    - B
      - HIS105: America to 1877 (4 hours)
      - HIS106: America since 1877 (4 hours)
    - C
      - HIS107: Understanding the Premodern World (4 hours)
      - HIS108: Understanding Our Contemporary World (4 hours)
      - HIS110: History of Modern China (4 hours)
      - HIS112: Intro to Latin America History (4 hours)
  - II. Three additional courses;

Three additional courses at the 200- and 300-course levels. One of those three courses must be a 300-level research course and not all of them may be taken in United States History.

- Courses offered by the program:
  - HIS103: Roots of the Western World (4 hours)
  - HIS104: Europe and the Modern World (4 hours)
  - HIS105: America to 1877 (4 hours)
  - HIS106: America since 1877 (4 hours)
  - HIS106H: America Since 1877 (4 hours)
  - HIS107: Understanding the Premodern World (4 hours)
  - HIS108: Understanding Our Contemporary World (4 hours)
  - HIS110: History of Modern China (4 hours)
  - HIS112: Intro to Latin America History (4 hours)
  - HIS200: Workshop for Historians (4 hours)
  - HIS203: The American Civil War (4 hours)
  - HIS210: Hist-American Foreign Relations (4 hours)
  - HIS213: Women in American History (4 hours)
  - HIS215: American Encounters: Natives, Africans, and Europeans in the Americas, 1350-1750 (4 hours)
  - HIS217: Renaissance and Reformation Europe (4 hours)
  - HIS224H: The World Since 1945 (4 hours)
  - HIS225H: Medieval Europe, China, and the Islamic Crescent (4 hours)
  - HIS254: Topics in Medieval European History (4 hours)
  - HIS257: Europe's Civil War: 1900-1950 (4 hours)
  - HIS280: Internship in History (2 TO 4 hours)
  - HIS291: Topics in History (2 TO 4 hours)
  - HIS298: Independent Study in History (2 TO 4 hours)
  - HIS301: The Forging of a Nation - The Colonial and Revolutionary Experience in North America (4 hours)
  - HIS305: Recent America (4 hours)
  - HIS316: Renaissance and Reformation Europe (4 hours)
  - HIS318: American Indian History (4 hours)
  - HIS329: The German Experience (4 hours)
  - HIS391: Topics in History (4 hours)
  - HIS398: Independent Study in History (2 TO 4 hours)
  - HIS495: Kennan Seminar (1 hours)
  - HIS499: Capstone - Senior Seminar for Historians (4 hours)

- **Philosophy, Political Science and Economics**

<b>Dennis Debrecht</b>	<b>Associate Professor of Economics</b>
<b>Lilly Goren</b>	<b>Professor of Political Science</b>
<b>Kevin Guilfooy</b>	<b>Associate Professor of Philosophy</b>
<b>Max Rondolino</b>	<b>Assistant Professor of Philosophy</b>

The Philosophy, Political Science and Economics Program offers a major.

- **Philosophy, Political Science and Economics Major (48 credits)**

**Philosophy, Political Science and Economics major (48 credits)  
Bachelor of Arts**

The philosophy, political science and economics (PPE) major provides students with the opportunity to form an interdisciplinary integrated knowledge that combines foundational understanding of each discipline. In order to understand complex social phenomena one must approach them from several complementary disciplinary



directions and analytical frameworks. The study of philosophy equips students with broad knowledge of the ideas and theories that shape society and culture, and the intellectual tools needed for ethical reflection. The study of political science acquaints students with the political structures that govern society and introduces the complexities involved in the choices political systems and regimes regularly make. Knowledge of economics is vital for explaining and understanding the social world. There is at least some truth to Marx's claim that all social phenomena are at their core economic. All three disciplines equip students with meta-tools such as the ability to think rigorously and logically, but each employs different methodologies. This is what makes the PPE major genuinely interdisciplinary: PPE students explore contemporary questions about distributive justice; the ethical significance of the competitive market economy; and the dynamic relationships between the economic, political and legal orders by employing and integrating the tools methods and perspectives of each discipline. The PPE major provides career oriented liberal arts students with the Integrated Knowledge and Lifelong Skills necessary for success and leadership in a rapidly evolving world.

#### Learning Outcomes for PPE

1. Students will be able to identify and critically discuss in written and oral fashion government structures and decision making processes.
2. Students will be able to identify and critically discuss in written and oral fashion key concepts, figures, movements, and ideas in philosophy.
3. Students will be able to identify and critically discuss in written and oral fashion the function of market forces and the larger social issues related to economic forces and decision making.
4. Students will be able to identify and critically discuss in written and oral fashion the integration of the fundamental concepts and ideas of Philosophy, Political Science, and Economics and the way these ideas shape fundamental societal issues of justice, citizenship, social order, wealth and poverty, globalization, freedom, et. al.
5. Students will be able to identify, analyze, and respond critically to relevant issues using appropriate research and bibliographic materials and facilities commonly employed in the fields of Philosophy, Political Science, and Economics.

#### o Core Courses

- o I All Philosophy, Political Science and Economics majors must take:
  - o A. Core Courses
    - o PHI205: Philosophy, Politics, and Economics (4 hours)
    - o POL200: Social Science Inquiry (4 hours)
  - o B. Philosophy
    - o PHI101: Introduction to Philosophy (4 hours)
    - o One of the listed 200 level courses
      - o PHI206: Ethics (4 hours)
      - o PHI207: History and Philosophy of Science (4 hours)
      - o PHI213: Philosophy of Art (4 hours)
    - o One course at the 300 level
      - o PHI307: World Philosophy (4 hours)
      - o PHI308: Philosophy of Religion (4 hours)
      - o PHI320: Ancient and Mediaeval Philosophy (4 hours)
      - o PHI321: Modern and Contemporary Philosophy (4 hours)
  - o C. Political Science
    - o One of the listed 100 level courses in Political Science
      - o POL103: Politics of the World's Nations (4 hours)
      - o POL141: Intro to American Politics (4 hours)
      - o POL155: Contemporary Global Politics (4 hours)
    - o One additional course at the 200 level or higher
      - o POL269: The American Congress (4 hours)
      - o POL275: Political Theory (4 hours)
      - o POL276: Democracy, Globalization, and International Governance (4 hours)
      - o POL280: Politics and Culture (4 hours)
      - o POL285: International Conflict and Security (4 hours)
    - o One course at the 300 level
      - o POL301: Politics of Developed Nations (4 hours)
      - o POL303: Politics of Developing Nations (4 hours)
      - o POL321: International Law (4 hours)
      - o POL329: The German Experience (4 hours)
      - o POL332: Public Policy (4 hours)
      - o POL335: Public Administration (4 hours)
      - o POL336: The American Presidency (4 hours)
      - o POL344: Constitutional Law and Politics (4 hours)
  - o D. Economics
    - o ECO124: Principles of Economics I - Microeconomics (4 hours)
    - o ECO225: Principles of Economics II - Macroeconomics (4 hours)
    - o One course at the 300 level
      - o ECO306: Microeconomic Theory (4 hours)
      - o ECO307: Macroeconomic Theory (4 hours)
      - o ECO343: Money and Banking (4 hours)
      - o ECO363: International Economics (4 hours)
  - o E. Capstone
    - o PPE499: Capstone in Philosophy, Politics, and Economics (4 hours)
- o Bachelor of Arts Requirement

#### Bachelor of Arts Requirement

The requirements for a Bachelor of Arts are:

- o Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- o \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- o MAT106 or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Courses offered by the program:
  - PHI101: Introduction to Philosophy (4 hours)
  - PHI105: Introduction to Logic (4 hours)
  - PHI106: Ethics, Values and Judgment (4 hours)
  - PHI194: Bioethics (4 hours)
  - PHI205: Philosophy, Politics, and Economics (4 hours)
  - PHI206: Ethics (4 hours)
  - PHI206H: Ethics (4 hours)
  - PHI207: History and Philosophy of Science (4 hours)
  - PHI213: Philosophy of Art (4 hours)
  - PHI298: Independent Study in Philosophy (1 TO 4 hours)
  - PHI307: World Philosophy (4 hours)
  - PHI308: Philosophy of Religion (4 hours)
  - PHI320: Ancient and Mediaeval Philosophy (4 hours)
  - PHI321: Modern and Contemporary Philosophy (4 hours)
  - PHI398: Independent Study in Philosophy (1 TO 4 hours)
  - PPE499: Capstone in Philosophy, Politics, and Economics (4 hours)

- **Political Science**

**Lilly Goren**                      **Professor of Political Science**

The Political Science Program offers a major and a minor in global studies and in political science.

- **Political Science Major (44 credits)**

The major in political science prepares students for a lifetime of informed and active citizenship while teaching the skills necessary to succeed in our knowledge-based, globalized economy.

#### Learning Outcomes for Political Science

Political Science majors at Carroll University will develop a general knowledge of the following:

1. Major institutions (e.g., legislatures, executives, judiciaries, bureaucracies) and processes (e.g., voting, policy-making) of American governments and of diverse national political systems.
2. The main theories used to understand the global arena as well as the impact of globalization on global and national politics.
3. The structure and functions of political theorizing as well as an overview of its history.
4. Important processes and agencies within public organizations and the ethical dimensions of public service.
5. Students develop strong communication skills (reading, writing, listening) as well as analytical and critical skills, which enable them to dissect and solve complex problems effectively.
6. Students develop the capacity to conduct independent research (identify and develop a research question, design research strategies based on the application of quantitative and/or qualitative methodologies, access and interpret information from print and electronic sources, write and present a critical and analytical argument).
7. Students are strongly encouraged to develop an understanding of the world of work by completing an internship or by participating in an off-campus program that involves contact with governments or non-governmental organizations engaged in the public policy process.

- Core Courses
  - POL103: Politics of the World's Nations (4 hours)
  - POL141: Intro to American Politics (4 hours)
  - POL155: Contemporary Global Politics (4 hours)
  - POL200: Social Science Inquiry (4 hours)
  - POL275: Political Theory (4 hours)
  - At least one of the following:
    - POL332: Public Policy (4 hours)
    - POL335: Public Administration (4 hours)
    - POL336: The American Presidency (4 hours)
    - POL344: Constitutional Law and Politics (4 hours)
  - At least one of the following:
    - POL301: Politics of Developed Nations (4 hours)
    - POL303: Politics of Developing Nations (4 hours)
  - POL399: Capstone in Political Science and Global Studies (4 hours)
  - Plus two additional Politics courses
  - One 200 or 300-level course in History, Philosophy, or Religious Studies
- Bachelor of Arts Requirement

#### Bachelor of Arts Requirement

The requirements for a Bachelor of Arts are:

- Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- **MAT106** or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS.  
FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Political Science Minor (20 credits)
  - POL103: Politics of the World's Nations (4 hours)
  - POL141: Intro to American Politics (4 hours)
  - Plus two additional Politics courses
- Courses offered by the program:
  - POL103: Politics of the World's Nations (4 hours)
  - POL141: Intro to American Politics (4 hours)
  - POL155: Contemporary Global Politics (4 hours)
  - POL200: Social Science Inquiry (4 hours)
  - POL269: The American Congress (4 hours)
  - POL275: Political Theory (4 hours)
  - POL276: Democracy, Globalization, and International Governance (4 hours)
  - POL280: Politics and Culture (4 hours)
  - POL285: International Conflict and Security (4 hours)
  - POL291: Topics in Politics (2 TO 4 hours)
  - POL298: Independent Study in Politics (1 TO 4 hours)
  - POL301: Politics of Developed Nations (4 hours)
  - POL303: Politics of Developing Nations (4 hours)
  - POL321: International Law (4 hours)
  - POL329: The German Experience (4 hours)
  - POL332: Public Policy (4 hours)
  - POL335: Public Administration (4 hours)
  - POL336: The American Presidency (4 hours)
  - POL344: Constitutional Law and Politics (4 hours)
  - POL381: Internship in Politics (4 TO 12 hours)
  - POL382: Internship in Global Studies (4 hours)
  - POL391: Topics in Politics (4 hours)
  - POL398: Independent Study in Politics (1 TO 4 hours)
  - POL399: Capstone in Political Science and Global Studies (4 hours)

- Religious Studies

**Pascale Engelmajer**      **Assistant Professor of Religious Studies**  
**James Grimshaw**      **Associate Professor of Religious Studies**

The Religious Studies Program offers a major and a minor in religious studies.

- Religious Studies Major (36 credits)

The religious studies major is designed to provide students with depth and breadth in the study of religion as universal to human experience, fundamental to human efforts to find meaning in the universe, and central to cultures around the world, past and present. As an inherently interdisciplinary field, the study of religion incorporates a wide variety of approaches, including historical, psychological, sociological, anthropological, literary, and philosophical. In addition to being provided opportunities to reflect extensively on the big questions of human existence, students majoring in religious studies become familiar with many religious traditions, and are equipped with multiple ways of thinking about the nature of religion, its role in society, and its place in the lives of individuals. Religious studies majors may go on to careers in counseling, journalism, ministry, social work, or any number of other professions requiring strong critical thinking skills, good writing ability, and careful reading. Graduate school in a variety of fields is possible, and religious studies majors historically score very well on the LSAT for law school admission. As a minor, Religious Studies can very effectively supplement a number of majors, including, for example, literature, history, writing, psychology, or Philosophy, Political Science and Economics. Likewise, the philosophy minor not only provides a strong grounding in reasoning skills, but also background in the variety of ways human beings think about, and have thought in the past about, what matters and why.

#### Learning Outcomes for Religious Studies

Upon successful completion of major requirements students should be able to:

1. Articulate how religion has the power to shape individual lives and social values.
2. Critically read, evaluate, and write on the foundational texts and the significant ideas, concepts, and questions in the study of religion.
3. Demonstrate an in-depth knowledge of Christian traditions including critically reflecting on the Hebrew Bible, New Testament, and Christian history and theologies.
4. Show a basic understanding of a breadth of religious traditions including Judaism, Islam, Buddhism, Hinduism and Native American traditions.
5. Use library research tools specific to religious studies, and religious studies methodologies to construct papers, essays and class presentations.
6. Use these perspectives and skills to become a responsible citizen in a religiously plural world.
7. Identify, analyze, and compare understandings of the meaning of life, the human condition, and the nature of the good life in several religious traditions.

- Core Courses

- A. Two introductory courses (100 level)
  - REL106: Understanding Religion (4 hours)
  - REL102: Introduction to the Hebrew Bible (4 hours)  
OR -REL103: Intro to the New Testament (4 hours)
- B. Six intermediate courses (200 and 300 level); at least two must be from 300 level:
  - Two in Christian Tradition

- Choose one from:
  - REL230: Foundations of Christianity (4 hours)
  - REL231: Christianity in the Modern World (4 hours)
- Choose one from:
  - REL201: Jesus of Nazareth (4 hours)
  - REL202: Religious Traditions in America (4 hours)
  - REL210: Suffering and Hope (4 hours)
  - REL291: Topics in Religious Studies (4 hours)
  - OR -REL391: Topics in Religious Studies (4 hours)
  - REL310: Powers, Politics, and Pluralism in Biblical Interpretation (4 hours)
- Two in Religious Traditions
  - REL215: Women in Religion (4 hours)
  - REL220: Health and Religion (4 hours)
  - REL306: Asian Religions (4 hours)
  - REL316: Judaism, Christianity, and Islam (4 hours)
- Two electives
  - One 200 or 300-level course in Religious Studies or Philosophy
  - One 200 or 300-level course in History, Philosophy, or Political Science
- C. One advanced course (400 level)
  - REL499: Capstone: Senior Seminar (4 hours)
- Bachelor of Arts Requirement

#### Bachelor of Arts Requirement

The requirements for a Bachelor of Arts are:

- Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- MAT106 or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Religious Studies Minor (20 credits)
  - Two introductory courses (100 level)
    - REL102: Introduction to the Hebrew Bible (4 hours)
    - OR -REL103: Intro to the New Testament (4 hours)
    - REL106: Understanding Religion (4 hours)
  - One course in Christian Tradition
    - REL201: Jesus of Nazareth (4 hours)
    - REL202: Religious Traditions in America (4 hours)
    - REL210: Suffering and Hope (4 hours)
    - REL230: Foundations of Christianity (4 hours)
    - REL231: Christianity in the Modern World (4 hours)
    - REL291: Topics in Religious Studies (4 hours)
    - OR -REL391: Topics in Religious Studies (4 hours)
    - REL310: Powers, Politics, and Pluralism in Biblical Interpretation (4 hours)
  - One in Religious Traditions
    - REL215: Women in Religion (4 hours)
    - REL220: Health and Religion (4 hours)
    - REL306: Asian Religions (4 hours)
    - REL316: Judaism, Christianity, and Islam (4 hours)
  - One elective in Religion or Philosophy, 300 or above
- Courses offered by the program:
  - REL100: World Religions (4 hours)
  - REL102: Introduction to the Hebrew Bible (4 hours)
  - REL103: Intro to the New Testament (4 hours)
  - REL106: Understanding Religion (4 hours)
  - REL108: Introduction to Buddhism (4 hours)
  - REL201: Jesus of Nazareth (4 hours)
  - REL202: Religious Traditions in America (4 hours)
  - REL210: Suffering and Hope (4 hours)
  - REL215: Women in Religion (4 hours)
  - REL220: Health and Religion (4 hours)
  - REL224: Religion and Literature (4 hours)
  - REL230: Foundations of Christianity (4 hours)
  - REL231: Christianity in the Modern World (4 hours)
  - REL291: Topics in Religious Studies (4 hours)
  - REL298: Independent Study in Religious Studies (1 TO 4 hours)
  - REL306: Asian Religions (4 hours)
  - REL308: Philosophy of Religion (4 hours)
  - REL310: Powers, Politics, and Pluralism in Biblical Interpretation (4 hours)
  - REL316: Judaism, Christianity, and Islam (4 hours)
  - REL362: New Testament Greek Tutorial (2 hours)
  - REL364: Hebrew Tutorial (2 hours)
  - REL380: Internship in Religious Studies (1 TO 4 hours)
  - REL391: Topics in Religious Studies (4 hours)

- REL398: Independent Study in Religious Studies (1 TO 4 hours)
- REL480: Internship in Religious Studies (1 TO 4 hours)
- REL499: Capstone: Senior Seminar (4 hours)

• **Medieval and Renaissance Studies Minor**

The Medieval and Renaissance eras were periods of great change in European society. Many of the components of our modern world developed during these periods, from ideas such as the contract theory of government to institutions such as the Catholic Church, Parliament, and universities. This interdisciplinary minor integrates approaches from various areas of scholarship within the humanities, such as history, philosophy, English, and religious studies, to allow students to develop a holistic understanding of Medieval and Renaissance Europe.

**Program Administration**

Students minoring in Medieval and Renaissance Studies should meet with an advisor who teaches courses within the minor, in order to assure that requirements are met.

**Mission and Program Goals**

Students will gain a broad understanding of the Medieval and Renaissance eras in European history, while learning the approach that scholars in the field take to understanding these eras.

**Program Learning Outcomes**

- I. Develop an understanding of the history and culture of Medieval and Renaissance Europe.
2. Employ tools from a variety of disciplines to identify, explore, and explain socio-cultural problems during the period.
3. Understand the reception and impact of ideals from classical antiquity on medieval and Renaissance cultures.

◦ Required Courses

The student in the Medieval and Renaissance Studies minor will be required to take five (5) courses, drawn from the following lists. Students must take at least one (1) class from each of the three areas of concentration (Literature, History, Religion and Philosophy):

- Literature
  - ENG240: British Literature I - Medieval to 1700 (4 hours)
  - ENG301: Chaucer (4 hours)
  - ENG304: Shakespeare: From Stage to Screen (4 hours)
  - ENG323: Early Modern British Literature (4 hours)
- History
  - HIS225H: Medieval Europe, China, and the Islamic Crescent (4 hours)
  - HIS254: Topics in Medieval European History (4 hours)
  - HIS316: Renaissance and Reformation Europe (4 hours)
- Religion and Philosophy
  - PHI320: Ancient and Mediaeval Philosophy (4 hours)
  - REL230: Foundations of Christianity (4 hours)

• **Philosophy Minor (20 credits)**

<b>Kevin Guilfof</b>	<b>Associate Professor of Philosophy</b>
<b>Max Rondolino</b>	<b>Assistant Professor of Philosophy</b>

- Core Courses
  - PHI101: Introduction to Philosophy (4 hours)
  - PHI105: Introduction to Logic (4 hours)
  - PHI206: Ethics (4 hours)
  - Two additional philosophy courses; at least one must be at the 300 level

**College of Arts and Sciences**

Communication and Sociology  
Computational and Physical Sciences  
Education  
English and Modern Languages  
History, Political Science and Religious Studies  
[Life Sciences](#)  
    » Undergraduate  
Visual and Performing Arts

**Department: Life Sciences**

Chairperson: Matthew Scheel  
Room: Rankin 308      Email: [mscheel@carrollu.edu](mailto:mscheel@carrollu.edu)  
Telephone: 262-524-7253      Fax: 262-524-7112

**Programs**

[Undergraduate](#)  
[Animal Behavior](#)  
[Biology](#)  
[Environmental Science](#)  
[Marine Sciences](#)  
[Psychology](#)

**Life Sciences****Undergraduate**

- » Animal Behavior
- » Biology
- » Environmental Science
- » Marine Sciences
- » Psychology

**Program: Undergraduate**

College of Arts and Sciences  
Department: Life Sciences

• **Animal Behavior****Susan E. Lewis****Christopher J. May****Matthew Scheel****Professor of Biology****Associate Professor of Psychology****Associate Professor of Psychology**

The interdisciplinary major in Animal Behavior supports the mission of Carroll University and the College of Natural Sciences, Health Sciences and Business. The program is designed to give students a thorough knowledge of Animal Behavior within the domains of comparative psychology, behavioral ecology, and behavioral neuroscience. It will also enrich students' ability to apply scientific methods to understand the behavior of animals. The major will provide a foundation for those who wish to pursue graduate studies or professional careers in animal behavior or a related field, including veterinary medicine.

**Learning Outcomes for Animal Behavior**

As students progress through the animal behavior major, they will strengthen their abilities to:

1. Define and describe animal behavior-related terminology and concepts.
2. Understand experimental design.
3. Execute empirical procedures.
4. Demonstrate multiple effective communication skills.

- Animal Behavior Major Bachelor of Science
  - ANB101: The Science of Animal Behavior (4 hours)  
AND -ANB101L: The Science of Animal Behavior Laboratory
  - BIO120: General Biology I (4 hours)  
AND -BIO120L: General Biology I Laboratory
  - BIO417: Behavioral Ecology (4 hours)  
AND -BIO417L: Behavioral Ecology Laboratory
  - PSY101: Introductory Psychology (4 hours)
  - PSY205: Statistics and Experimental Design (4 hours)  
AND -PSY205L: Statistics and Experimental Design Lab
  - PSY240: Biopsychology (4 hours)
  - PSY314: Learning and Animal Behavior (4 hours)
  - PSY401: Behavioral Neuroscience (4 hours)  
AND -PSY401L: Behavioral Neuroscience Laboratory
  - PSY414: Research Methods in Behavior Analysis (2 hours)
  - ANB380: Internship in Animal Behavior (2-4 hours)
- Required Support Courses (4 credits)
  - ENG199: Reading and Writing in the Sciences (4 hours)
- Bachelor of Science Requirement (Animal Behavior and Psychology majors only)

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- CMP112 and PSY205 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Animal Behavior Minor
  - The course of study for this minor will consist of 5 courses:

It is recommended that students take BIO120 prior to enrollment in ANB101.

- ANB101: The Science of Animal Behavior (4 hours)  
AND -ANB101L: The Science of Animal Behavior Laboratory
- PSY101: Introductory Psychology (4 hours)
- PSY240: Biopsychology (4 hours)
- PSY314: Learning and Animal Behavior (4 hours)
- One of the following
  - ANB302: Winter Ecology of Wolf and Lynx (3 hours)
  - BIO417: Behavioral Ecology (4 hours)  
AND -BIO417L: Behavioral Ecology Laboratory

- PSY401: Behavioral Neuroscience (4 hours)  
AND -PSY401L: Behavioral Neuroscience Laboratory
- PSY414: Research Methods in Behavior Analysis (2 hours)
- Courses offered by the program:
  - ANB101: The Science of Animal Behavior (4 hours)
  - ANB301: Theory and Practice of Animal Training (3 hours)
  - ANB302: Winter Ecology of Wolf and Lynx (3 hours)
  - ANB380: Internship in Animal Behavior (2-4 hours)
- **Biology**

<b>Roberto Brenes</b>	<b>Assistant Professor</b>
<b>Cynthia J. Horst</b>	<b>Associate Professor</b>
<b>Todd D. Levine</b>	<b>Lecturer</b>
<b>Susan E. Lewis</b>	<b>Professor</b>
<b>Christine Schneider</b>	<b>Assistant Professor</b>

The Biology program is committed to transforming students into Biologists with enhanced skills in critical thinking and scientific reasoning. Students will learn in an environment that fosters creativity, independent thinking, and the application of knowledge in the biological sciences. When Biology students graduate from Carroll University they will have the confidence and skills necessary to be successful professionals in a dynamic global work force.

The biology major is designed to give students excellent preparation for graduate study or professional careers in life science areas such as molecular biology, physiology, field biology, research, teaching, dentistry, medicine, physical therapy, physician assistant, or veterinary medicine. All students have opportunities to develop excellent research skills throughout the core courses and upper-level biology electives, and many students collaborate with biology faculty on their current scholarly research.

### Learning Outcomes for Biology

After completing the Biology major, students will:

- Understand foundational principles across ecological, organismal, and cellular/molecular fields in biology
- Be able to apply foundational knowledge to solve biological problems
- Interpret and generate scientific data (graphical or other formats)
- Develop hypotheses, design controlled experiments, and perform data analyses
- Understand the theoretical basis of fundamental laboratory techniques
- Communicate scientific information through written or oral formats
- Develop informational research skills by reading scientific textbooks, articles, and searching peer-reviewed databases

Students in the Biology program may be considered for graduation with program honors if they complete the following requirements:

GPA, Biology courses: 3.6 or higher

GPA, Overall: 3.4 or higher

Presentation of research project results at a regional or national meeting (e.g., BBB or a disciplinary society) or submission of a manuscript to a peer-reviewed journal

Demonstrated commitment to the biology profession, broadly defined, above and beyond that of the average student. Evidence of such commitment will come from one or more of the following:

- Active membership in Beta Beta Beta, the Biological Honor Society.
- Active membership in a professional/scholarly organization related to biology (e.g., Ecological Society of America, American Society for Microbiology, etc.).
- Significant educational activity/outreach (e.g., tutoring, mentoring) at the university or other level.
- Consistent and sustained volunteer activity in an organization working on environmental, health, or other issues relevant to biology.
- Significant research activity separate from or above and beyond the capstone.
- Sustained activity in science-related policy/consulting in communication, journalism, government, public policy, business, industry or education.

The Biology faculty will review these requirements for all graduating seniors in the spring semester of each year.

### Fees

Specific courses that require use of transportation, equipment or disposable supplies are assigned a course fee.

- **Biology Major**
  - Core Courses
    - BIO120: General Biology I (4 hours)  
AND -BIO120L: General Biology I Laboratory
    - BIO125: General Biology II (4 hours)  
AND -BIO125L: General Biology II Laboratory
    - BIO220: Genetics (4 hours)  
AND -BIO220L: Genetics Laboratory
    - BIO225: Organismal Physiology (4 hours)  
AND -BIO225L: Organismal Physiology Laboratory
    - BIO399: Capstone in Biological Sciences (4 hours)
  - Required Support Courses (\*Required for primary majors only)
    - CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory
    - CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
    - CHE203: Organic Chemistry I (4 hours)  
AND -CHE203L: Organic Chemistry I Laboratory

### Four Elective Courses



Including at least one course from each area listed below:

Ecological, Organismal, and Cellular/Molecular.

- o Ecological
  - o BIO333: Ecology (4 hours)  
AND -BIO333L: Ecology Laboratory
  - o BIO360: Aquatic Ecology (4 hours)  
AND -BIO360L: Aquatic Ecology Laboratory
  - o BIO417: Behavioral Ecology (4 hours)  
AND -BIO417L: Behavioral Ecology Laboratory
  - o BIO462: Conservation Biology (4 hours)
- o Organismal
  - o BIO322: Comparative Vertebrate Zoology (4 hours)  
AND -BIO322L: Comparative Vertebrate Zoology Laboratory
  - o BIO350: Endocrinology (4 hours)
  - o ANP403: Human Physiology (4 hours)  
AND -ANP403L: Human Physiology Laboratory
- o Cellular/Molecular
  - o BIO332: Gene Manipulation and Genomics (4 hours)  
AND -BIO332L: Gene Manipulation and Genomics Lab
  - o BIO412: Microbiology (4 hours)  
AND -BIO412L: Microbiology Laboratory
  - o BIO452: Cell Biology (4 hours)  
AND -BIO452L: Cell Biology Laboratory
- o Pre-Physical Therapy 4 year plan

[Click here](#) for a four year plan with a major in Biology.

- o Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- o [CMP112](#) and either [CMP113](#) or [CMP114](#) or
- o [MAT140](#) or higher and [CSC110](#) or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- o The Pioneer Core Program
  - o Cross-Cultural Component
  - o Distribution Component
  - o GE1 and GE2 Courses
  - o Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- o Pre-Dental, Pre-Medical, Pre-Physician Assistant, Pre-Physical Therapy, and Pre-Veterinary

Students preparing for pre-professional programs must complete the requirements in the Biology major as well as some of the following courses as appropriate for the specific professional program.

It is the responsibility of each pre-professional student to compile a list of schools and their admittance requirements related to the courses below as these differ from school to school.

Pre-professional students should then consult with the appropriate pre-professional advisor to ensure that the requirements will be met prior to graduation.

- o CHE204: Organic Chemistry II (4 hours)  
AND -CHE204L: Organic Chemistry II Laboratory
- o CHE308: Biochemistry I (4 hours)  
AND -CHE308L: Biochemistry I Laboratory
- o MAT160: Calculus I (4 hours)
- o PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
- o PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
- o Social Sciences, such as:
  - o PSY101: Introductory Psychology (4 hours)
  - o SOC101: Introduction to Sociology (4 hours)
- o Writing Course, such as:
  - o ENG190: Intro to Creative Writing - Imagination and Rhetoric (4 hours)  
OR -ENG206: Fiction Writing (4 hours)  
OR -ENG207: Poetry Writing (4 hours)  
OR -ENG208: Creative Nonfiction Writing - The Documentary Impulse (4 hours)  
OR -ENG308: Advanced Creative Nonfiction (4 hours)  
OR -ENG199: Reading and Writing in the Sciences (4 hours)
- o Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- o [CMP112](#) and either [CMP113](#) or [CMP114](#) or
- o [MAT140](#) or higher and [CSC110](#) or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- o General Education Requirement

For more information on General Education Requirement, [click here](#).

- Distribution Component

For more information on the Distribution Component, [click here](#).

- GE1 and GE2 Courses

Students must complete four GE1 courses: one from each of the four Distribution Areas outside of their major area of study.

Students must take one GE2 course. The GE2 course chosen, must build upon a discipline taken at the GE1 level (e.g. PSY101 (S1) and PSY 221 (S2)).

**Fine Arts (F1, F2)**

**Humanities (H1, H2)**

**Philosophy/Ethics/Religion (P1, P2)**

**Social Sciences (S1, S2)**

- Cross-Cultural Component

The Cross-Cultural Component is a five-course series through which students explore the study of culture:

Transfer students will register for CCS101 for one credit.

- Cultural Seminar (CCS100)

The Cultural Seminar, which is taken in the first semester, begins the exploration of culture through the study of one's own culture and a different culture. This course develops oral communication skills through critical reading and discussion.

- Writing Seminar (ENG 170)

The Writing Seminar is taken during the first or second semester, includes cross-cultural readings, and develops foundational writing skills.

- Cross-Cultural Development (CCD)

The Cross-Cultural Designation course is taken after the Cultural and Writing Seminars. This course satisfies a Distribution requirement, continues development of writing skills, and includes significant cross-cultural themes as preparation for the Cross-Cultural Experience.

- Cross-Cultural Experience (CCE)

The Cross-Cultural Experience course is taken concurrently or after the Cross-Cultural Development course. In an off-campus setting, students apply knowledge learned in the previous three courses through interactions with cultures other than their own. (CCS300 for 2 credits, NCEP courses for 4 credits, or study abroad for 12+ credits)

[For more information and course listings, click here](#)

- Global Perspectives Colloquium (CCS400)

In the Global Perspectives Colloquium, advanced students (usually seniors) from multiple disciplines engage in critical reading and discussion. Students reflect on their distribution courses and cross-cultural experiences while also refining their writing skills.

- **Secondary Education**

### Secondary Education

Students should be prepared to demonstrate mastery of biological concepts on the ETS Praxis II exam, which is required for licensure.

To meet DPI requirements, Biology majors with a secondary education minor must complete the following courses:

- Core Courses, plus
  - **BIO412: Microbiology (4 hours)**  
AND **-BIO412L: Microbiology Laboratory**
  - **BIO322: Comparative Vertebrate Zoology (4 hours)**  
AND **-BIO322L: Comparative Vertebrate Zoology Laboratory**
  - **BIO333: Ecology (4 hours)**  
AND **-BIO333L: Ecology Laboratory**

One elective course in Biology (see Electives under Biology Major)

Students should be prepared to demonstrate mastery of biological concepts on the ETS Praxis II exam, which is required for licensure.

- Bachelor of Science Requirement

### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- General Education Requirement

For more information on General Education Requirement, [click here](#).

- Distribution Component

For more information on the Distribution Component, [click here](#).

- GE1 and GE2 Courses

Students must complete four GE1 courses: one from each of the four Distribution Areas outside of their major area of study.

Students must take one GE2 course. The GE2 course chosen, must build upon a discipline taken at the GE1 level (e.g. PSY101 (S1) and PSY 221 (S2)).

**Fine Arts (F1, F2)**

**Humanities (H1, H2)**

**Philosophy/Ethics/Religion (P1, P2)**

**Social Sciences (S1, S2)**

- Cross-Cultural Component

The Cross-Cultural Component is a five-course series through which students explore the study of culture:

Transfer students will register for CCS101 for one credit.

- Cultural Seminar (CCS100)

The Cultural Seminar, which is taken in the first semester, begins the exploration of culture through the study of one's own culture and a different culture. This course develops oral communication skills through critical reading and discussion.

- Writing Seminar (ENG 170)

The Writing Seminar is taken during the first or second semester, includes cross-cultural readings, and develops foundational writing skills.

- Cross-Cultural Development (CCD)

The Cross-Cultural Designation course is taken after the Cultural and Writing Seminars. This course satisfies a Distribution requirement, continues development of writing skills, and includes significant cross-cultural themes as preparation for the Cross-Cultural Experience.

- Cross-Cultural Experience (CCE)

The Cross-Cultural Experience course is taken concurrently or after the Cross-Cultural Development course. In an off-campus setting, students apply knowledge learned in the previous three courses through interactions with cultures other than their own. (CCS300 for 2 credits, NCEP courses for 4 credits, or study abroad for 12+ credits)

[For more information and course listings, click here](#)

- Global Perspectives Colloquium (CCS400)

In the Global Perspectives Colloquium, advanced students (usually seniors) from multiple disciplines engage in critical reading and discussion. Students reflect on their distribution courses and cross-cultural experiences while also refining their writing skills.

- Biology Minor

- BIO120: General Biology I (4 hours)  
AND -BIO120L: General Biology I Laboratory
- BIO125: General Biology II (4 hours)  
AND -BIO125L: General Biology II Laboratory
- BIO220: Genetics (4 hours)  
AND -BIO220L: Genetics Laboratory
- BIO225: Organismal Physiology (4 hours)  
AND -BIO225L: Organismal Physiology Laboratory

Two elective courses in Biology (see Electives under Biology Major above)

- Courses offered by the program:

- BIO120: General Biology I (4 hours)
- BIO120L: General Biology I Laboratory
- BIO125: General Biology II (4 hours)
- BIO125L: General Biology II Laboratory
- BIO131: Genetics in Family and Society (4 hours)
- BIO131L: Genetics in Family and Society Lab
- BIO212: Microbiology for the Health Sciences (4 hours)
- BIO212L: Microbiology for the Health Sciences Laboratory
- BIO220: Genetics (4 hours)
- BIO220L: Genetics Laboratory
- BIO225: Organismal Physiology (4 hours)
- BIO225L: Organismal Physiology Laboratory
- BIO271: Clinical Immunology (4 hours)
- BIO271L: Clinical Immunology Laboratory
- BIO322: Comparative Vertebrate Zoology (4 hours)
- BIO322L: Comparative Vertebrate Zoology Laboratory
- BIO332: Gene Manipulation and Genomics (4 hours)
- BIO332L: Gene Manipulation and Genomics Lab

- BIO333: Ecology (4 hours)
- BIO333L: Ecology Laboratory
- BIO350: Endocrinology (4 hours)
- BIO360: Aquatic Ecology (4 hours)
- BIO360L: Aquatic Ecology Laboratory
- BIO399: Capstone in Biological Sciences (4 hours)
- BIO412: Microbiology (4 hours)
- BIO412L: Microbiology Laboratory
- BIO417: Behavioral Ecology (4 hours)
- BIO417L: Behavioral Ecology Laboratory
- BIO452: Cell Biology (4 hours)
- BIO452L: Cell Biology Laboratory
- BIO462: Conservation Biology (4 hours)
- BIO480: Internship in Biology (1 TO 4 hours)
- BIO485: Research in Biology (1 TO 4 hours)
- BIO491: Special Topics in Biology (1 TO 4 hours)
- BIO498: Independent Study (1 TO 4 hours)

- **Environmental Science**

**Kelly J. LaBlanc**     **Instructor of Environmental Science**

**Joseph J. Piatt**     **Associate Professor of Chemistry and Environmental Science**

The Environmental Science program offers a major and 3 related minors: Earth Science, Environmental Studies, and Natural Resource Management.

The environmental science major is an interdisciplinary science program which explores the interactions and relationships between human and natural systems. Through core classes, students integrate geologic, atmospheric, chemical and biological knowledge to address natural resource management and environmental issues. The environmental science program allows the student to tailor the curriculum to his or her professional goals.

Environmental science is a growing field which requires only a bachelor's degree in most job sectors. The environmental science major prepares students for careers in natural resource management, environmental protection, conservation, environmental consulting, government, and air, water, and soil quality.

The Environmental Science program helps manage a 63-acre field station. Located in the beautiful Kettle Moraine region just west of campus, the Greene Field Station features a trout stream, cold-water springs, extensive wetlands, and an on-site teaching and research facility. This site provides students with many opportunities for outdoor laboratory and research activities.

In addition, students in the program can earn a master's degree in environmental science via our 3+2 partnerships with Alaska Pacific University (APU) in Anchorage or with the School of Freshwater Sciences (SFS) at the University of Wisconsin- Milwaukee. Students who enroll at Carroll for three years and then transfer to APU or UW-Milwaukee earn both a bachelor's degree from Carroll University and a master's degree from APU or UW-Milwaukee.

#### Core Learning Outcomes

The Bachelors of Science degree in Environmental Science is designed so that students...

- Develop a scientific understanding of the biological, chemical, and physical aspects of environmental systems.
- Understand the interrelationships between human and environmental systems.
- Acquire laboratory and field skills for measuring environmental systems.
- Analyze environmental data and issues using quantitative and qualitative methods.
- Develop skills necessary to communicate scientific and resource management information.

#### Fees

Specific courses that require use of equipment and disposable supplies are assigned a course fee.

- **Environmental Science Major**
  - Core Requirements:
    - ENV105: Earth Science (4 hours)  
AND -ENV105L: Earth Science Laboratory
    - ENV150: Climate Science (4 hours)  
AND -ENV150L: Climate Science Laboratory
    - ENV201: Problem Solving in Environmental Systems (4 hours)
    - ENV277: Natural Resource Management (4 hours)
    - ENV325: Soils and Hydrology (4 hours)  
AND -ENV325L: Soils and Hydrology Laboratory
    - ENV367: Geographic Information Systems (4 hours)  
AND -ENV367L: Geographic Information Systems Laboratory
    - ENV370: Earth Surface Processes (4 hours)  
AND -ENV370L: Earth Surface Processes Laboratory
    - ENV455: Watershed Management (4 hours)
  - Required Supporting Courses
    - BIO120: General Biology I (4 hours)  
AND -BIO120L: General Biology I Laboratory
    - CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory
    - CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
  - Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- o The Pioneer Core Program
  - o Cross-Cultural Component
  - o Distribution Component
  - o GE1 and GE2 Courses
  - o Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- o Environmental Science Minors
  - o Earth Science
    - o ENV105: Earth Science (4 hours)  
AND -ENV105L: Earth Science Laboratory
    - o ENV150: Climate Science (4 hours)  
AND -ENV150L: Climate Science Laboratory
    - o ENV325: Soils and Hydrology (4 hours)  
AND -ENV325L: Soils and Hydrology Laboratory
    - o ENV370: Earth Surface Processes (4 hours)  
AND -ENV370L: Earth Surface Processes Laboratory
    - o PHY105: Astronomy (4 hours)
  - o Environmental Studies
    - o ENV120: Conservation and Environmental Improvement (4 hours)  
AND -ENV120L: Conservation and Environmental Improvement Laboratory
    - o ENV252: Contemporary Issues in Environmental Science (2 hours)
    - o ENV222: Environmental Sustainability (4 hours)
    - o PHI192: Environmental Ethics (4 hours)
    - o In addition complete one of the following paired course sequences:
      - o POL155: Contemporary Global Politics (4 hours)  
AND -POL332: Public Policy (4 hours)
      - o SOC103: Introduction to Criminal Justice (4 hours)  
AND -SOC202: Society and Ecology (4 hours)
  - o Natural Resource Management
    - o BIO120: General Biology I (4 hours)  
AND -BIO120L: General Biology I Laboratory
    - o ENV120: Conservation and Environmental Improvement (4 hours)  
AND -ENV120L: Conservation and Environmental Improvement Laboratory
    - o ENV201: Problem Solving in Environmental Systems (4 hours)
    - o ENV277: Natural Resource Management (4 hours)
    - o In addition complete two of the following courses:
      - o ENV367: Geographic Information Systems (4 hours)  
AND -ENV367L: Geographic Information Systems Laboratory
      - o ENV455: Watershed Management (4 hours)
      - o BIO333: Ecology (4 hours)  
AND -BIO333L: Ecology Laboratory
      - o BIO360: Aquatic Ecology (4 hours)  
AND -BIO360L: Aquatic Ecology Laboratory
      - o BIO371: Wolf and Lynx Ecology in Northern Minnesota (3 hours)
      - o BIO460: Restoration Ecology (4 hours)
- o Graduate Degree in Environmental Science in Alaska

After completing three years of coursework at Carroll University, students transfer to [Alaska Pacific University \(APU\)](#) for two years of graduate study. The first year of APU courses transfer back to Carroll University to complete the Bachelor of Science degree in Environmental Science with a minor in biology or chemistry. The agreement with APU specifies that students should be able to complete the Master of Science degree after two years of study in Alaska.

In preparation for this graduate program, students must have a minimum GPA of 3.0 in major courses and complete a minimum of 110 credits at Carroll University including the required core and support courses for the Environmental Science major, the Pioneer Core Program, and the following additional courses:

- o BIO125: General Biology II (4 hours)  
AND -BIO125L: General Biology II Laboratory
- o MAT140: Calculus and Its Applications (4 hours)
- o PHI192: Environmental Ethics (4 hours)
- o Graduate Degree in Freshwater Science

After completing three years of coursework at Carroll University, students transfer to the University of Wisconsin-Milwaukee and enter either the professional or thesis track of the Master of Science program at the [School of Freshwater Sciences \(SFS\)](#). Coursework from UW-Milwaukee then transfers back to Carroll University to complete the Bachelor of Science degree in Environmental Science.

In preparation for this graduate program, students must have a minimum GPA of 3.30 and meet all of UW-Milwaukee and the SFS graduate admission requirements. Before transferring to SFS, students must complete a minimum of 110 credits for the Professional Track and 115 credits for the Thesis Track at Carroll University including the required core and support courses for the Environmental Science major, the Pioneer Core Program, and the following additional course requirements:

- o Professional Track
  - o PHI192: Environmental Ethics (4 hours)
  - o BIO125: General Biology II (4 hours)  
AND -BIO125L: General Biology II Laboratory
- o Thesis Track
  - o PHI192: Environmental Ethics (4 hours)
  - o BIO125: General Biology II (4 hours)  
AND -BIO125L: General Biology II Laboratory
  - o MAT160: Calculus I (4 hours)  
AND -MAT160L: Calculus I - Laboratory
  - o MAT161: Calculus II (4 hours)  
AND -MAT161L: Calculus II - Laboratory

- PHY203: General Physics I (4 hours)  
AND -PHY203L: General Physics I Laboratory
- PHY204: General Physics II (4 hours)  
AND -PHY204L: General Physics II Laboratory
- Courses offered by the program:
  - ENV105: Earth Science (4 hours)
  - ENV105L: Earth Science Laboratory
  - ENV120: Conservation and Environmental Improvement (4 hours)
  - ENV120L: Conservation and Environmental Improvement Laboratory
  - ENV120H: Conservation and Environmental Improvement (4 hours)
  - ENV120HL: Conservation and Environmental Improvement Laboratory
  - ENV150: Climate Science (4 hours)
  - ENV150L: Climate Science Laboratory
  - ENV201: Problem Solving in Environmental Systems (4 hours)
  - ENV222: Environmental Sustainability (4 hours)
  - ENV222L: Environmental Sustainability Laboratory
  - ENV252: Contemporary Issues in Environmental Science (2 hours)
  - ENV277: Natural Resource Management (4 hours)
  - ENV290: Workshop-Environmental Science (2 TO 4 hours)
  - ENV292: Environmental Ethics (4 hours)
  - ENV325: Soils and Hydrology (4 hours)
  - ENV367: Geographic Information Systems (4 hours)
  - ENV370: Earth Surface Processes (4 hours)
  - ENV370L: Earth Surface Processes Laboratory
  - ENV380: Internship in Environmental Sci (2 TO 4 hours)
  - ENV391: Topics in Environmental Science (1 TO 4 hours)
  - ENV396: Research-Environmental Science (2 TO 4 hours)
  - ENV398: Independ Study-Environmental Sci (1 TO 4 hours)
  - ENV455: Watershed Management (4 hours)
  - ENV480: Work-Oriented Internship (2 TO 4 hours)
  - ENV491: Topics in Environmental Science (1 TO 4 hours)
  - ENV496: Research in Environmental Sci (2 TO 4 hours)
  - ENV498: Independent Study in Envir Sci (1 TO 4 hours)

- **Marine Sciences**

**Roberto Brenes**

**Assistant Professor of Biology**

**Susan E. Lewis**

**Professor of Biology**

Carroll University offers access to majors in marine biology and oceanography via a cooperative arrangement with Hawaii Pacific University (HPU). The objective of the Marine Science Program at HPU is to help students gain a scientific understanding of the world's oceans and the life they contain, and a sense of appreciation for their beauty and fragility. Students are given a theoretical framework in the basic and applied sciences as well as ample opportunities to get hands-on experience conducting laboratory and field observations and experiments. Lecture and laboratory facilities are located on the Hawaii Loa Campus of Hawaii Pacific University. The campus is only a twenty-minute drive from Kaneohe Bay, a large natural embayment protected from the open ocean by the only true barrier reef in the Hawaiian Islands. This bay serves as one of the finest natural laboratories in the world for studying the marine sciences, and its protected nature allows HPU students to do field work in almost any type of weather.

Students desiring to major in marine biology or oceanography will spend two years at Carroll University taking basic science and liberal arts courses. After the two years, students transfer to Hawaii Pacific University and complete the requirements for a Marine Biology/Oceanography degree from Hawaii Pacific University.

- **Marine Biology or Oceanography Major**
  - Science and mathematics courses taken at Carroll University
    - BIO120: General Biology I (4 hours)  
AND -BIO120L: General Biology I Laboratory
    - BIO125: General Biology II (4 hours)  
AND -BIO125L: General Biology II Laboratory
    - CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory
    - CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
    - ENV105: Earth Science (4 hours)  
AND -ENV105L: Earth Science Laboratory
    - CMP112: Computational Thinking I (4 hours)
    - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
    - MAT160: Calculus I (4 hours)
    - MAT161: Calculus II (4 hours)
    - PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory  
OR -PHY203: General Physics I (4 hours)  
AND -PHY203L: General Physics I Laboratory
    - PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory  
OR -PHY204: General Physics II (4 hours)  
AND -PHY204L: General Physics II Laboratory
  - Additional Courses to fulfill HPUs General Education Curriculum

(contact a Marine Biology advisor for a listing of all approved general education courses)

**Communication Skills:**

English 170, Writing Seminar; plus 1 additional course, e.g. Spanish 101 or Communication 101

**Global Systems:**

1 course, e.g., Economics 105 or History 104

**Research and Epistemology:**

Requirements are completed at HPU

**Values and Choices:**

3 courses, e.g. Environmental Science 292, Politics 101, or Philosophy 101

**World Cultures:**

CCS 100, Cultural Seminar; plus 2 additional courses, e.g., Art 103, Religion 102

- o Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- o **CMP112** and either **CMP113** or **CMP114** or
- o **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- o **The Pioneer Core Program**
  - o **Cross-Cultural Component**
  - o **Distribution Component**
  - o **GE1 and GE2 Courses**
  - o **Cross Cultural Development**

For a complete list of CCD courses, [click here](#).

- o Sample program at Carroll University

	Fall	Spring
<b>Freshman</b>	CCS 100 BIO 120 COM 101 MAT 130	ENG 170 BIO 125 ART 103 MAT 160
<b>Sophomore</b>	CHE 109 MAT 161 CMP112 HIS 104	CHE 110 ENV 105 (Oceanography majors only) CMP114 SOC 110

- o Sample program for Marine Biology at Hawaii Pacific University
  - o Summer at CU or HPU before Junior Year
    - o **PHY101: Introductory Physics I (4 hours)**  
AND **-PHY101L: Introductory Physics Laboratory**
    - o **PHY102: Introductory Physics II (4 hours)**  
AND **-PHY102L: Introductory Physics Laboratory**
  - o OR
  - o HPU Physics I and HPU Physics II

Fall and Spring Junior Year	Senior Year
Oceanographic Field Techniques Ecology General Oceanography I and II Argument, Research, Writing Marine Biology Cell and Molecular Biology plus Elective	Marine Ecology Evolutionary Genetics Plant Biology Marine Invertebrate Zoology Seminar: Marine Biology Seminar The World Problematique Fundamental Organic Chemistry Comparative Animal Physiology Biometry plus Elective

- o Sample program for Oceanography at Hawaii Pacific University
  - o Summer at CU or HPU before Junior Year
    - o **PHY203: General Physics I (4 hours)**  
AND **-PHY203L: General Physics I Laboratory**
    - o **PHY204: General Physics II (4 hours)**  
AND **-PHY204L: General Physics II Laboratory**
  - o OR
  - o HPU Physics I and HPU Physics II

Fall and Spring Junior Year	Senior Year
Oceanographic Field Techniques Ecology General Oceanography I and II Argument, Research, Writing Marine Biology Cell and Molecular Biology plus Elective	Marine Ecology Evolutionary Genetics Plant Biology Marine Invertebrate Zoology Seminar: Marine Biology Seminar The World Problematique Fundamental Organic Chemistry Comparative Animal Physiology Biometry plus Elective

- **Psychology**



**Christopher J. May**  
**Matthew Scheel**  
**Tara J. Schmidt**  
**David D. Simpson**

**Associate Professor**  
**Associate Professor**  
**Lecturer**  
**Professor**

Psychology is a life science that focuses upon the physical and mental processes that underlie individual behavior. This definition provides a focus for the objectives of the psychology program at Carroll University. The program numbers among its liberal learning objectives those of enriching students' understanding of scientific methods and giving students a thorough knowledge of the subject matter central to their better comprehending people.

In addition to its emphasis upon liberal learning, the program strives to offer a major that provides an excellent foundation for those who wish to pursue graduate studies. The program takes great pride in its strong track record of launching psychology majors into academic and professional careers. Academic careers include teaching and research in biological, cognitive, or social psychology; professional careers include serving people in clinical, counseling, or industrial/organizational settings.

#### Program Goals for Psychology

1. Majors will understand psychology as a scientific discipline with regard to its content and research methods.
2. Majors will demonstrate intellectual skills in thinking, communication, information gathering and synthesis, as well as in quantitative and scientific methodology.
3. Demonstrate effective written skills.
4. Demonstrate effective interpersonal communication skills.

#### Learning Outcomes

Upon successful completion of the Psychology major, students will be able to:

1. Define and describe psychology-related terminology and concepts
2. Evaluate and generate psychological research
3. Demonstrate multiple effective communication skills
4. Work effectively in a team environment

A minimum of 40 graded psychology credits are required for the major. In addition to Psychology 101, 205, 307, and 403, students complete additional requirements by selecting 24 credits from remaining psychology courses (excluding 398 and 480).

#### Suggested groupings:

Clinical/Counseling (201, 206, 240, 306, 321, 314)

Industrial/Organizational (211, 228, 303, 306, 316, 321)

Research (240, 303, 314, 316, 414, 492, plus at least two additional PSY credits)

Pre-PT (201, 221 or 206, 260, 303 or 321, CMP112 and CMP114, plus eight additional PSY credits excluding 240 and 314) (PTH 405 and 407 do not count for psychology major or minor.)

(Any student interested in graduate school in the field of psychology is also encouraged to take PSY492.)

#### Fees

Specific courses that require use of equipment and disposable supplies including certain types of psychological tests are assigned a course fee.

- o **Psychology Major**
  - o Core Courses
    - o **PSY101: Introductory Psychology (4 hours)**
    - o **PSY205: Statistics and Experimental Design (4 hours)**  
AND -**PSY205L: Statistics and Experimental Design Lab**
    - o **PSY307: Experimental Psychology (4 hours)**  
AND -**PSY307L: Experimental Psychology Lab**
    - o **PSY403: Capstone-Historical and Modern Viewpoints of Psychology (4 hours)**

Forty credits in Psychology. These credits can (but are not required to) complete an area grouping. (Cannot include both 206 and 221.)

Forty credits are required as a minimum.

Only courses listed as psychology (PSY) courses may be used as core courses for a psychology major or count toward a psychology minor.

- o Pre-Physical Therapy 4 year plan

[Click here](#) for a four year plan with a major in Psychology.

- o Courses required to complete a 4 year Pre-Physical Therapy Program
  - o **ANP130: Introduction to Human Anatomy and Physiology I (4 hours)**  
AND -**ANP130L: Intro to Human Anat and Phys I Lab**
  - o **ANP140: Introduction to Human Anatomy and Physiology II (4 hours)**  
AND -**ANP140L: Intro to Human Anat and Phys II Lab**
  - o **ANP402: Human Anatomy (4 hours)**  
AND -**ANP402L: Human Anatomy Laboratory**
  - o **ANP403: Human Physiology (4 hours)**  
AND -**ANP403L: Human Physiology Laboratory**
  - o **CHE101: General Chemistry (4 hours)**  
AND -**CHE101L: General Chemistry Laboratory**



- CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
  - PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
  - PSY101: Introductory Psychology (4 hours)
- Bachelor of Science Requirement (Animal Behavior and Psychology majors only)

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- CMP112 and PSY205 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Psychology Minor
  - PSY101: Introductory Psychology (4 hours)
  - Additional coursework

A minimum of 16 additional Psychology (PSY) credits, excluding PSY 398 and PSY 480. (Cannot include both PSY 206 and PSY 221.)

At least one elective must be 300-level or higher. Twenty credits are required as a minimum.

- Courses offered by the program:
  - PSY101: Introductory Psychology (4 hours)
  - PSY201: Abnormal Psychology (4 hours)
  - PSY205: Statistics and Experimental Design (4 hours)
  - PSY205L: Statistics and Experimental Design Lab
  - PSY206: Developmental Psychology (4 hours)
  - PSY211: Industrial and Organizational Psychology (4 hours)
  - PSY221: Life-Span Psychology (4 hours)
  - PSY228: Consumer Behavior (4 hours)
  - PSY240: Biopsychology (4 hours)
  - PSY260: Health Psychology (4 hours)
  - PSY303: Experimental Social Psychology (4 hours)
  - PSY306: Psychological Testing and Assessment (4 hours)
  - PSY307: Experimental Psychology (4 hours)
  - PSY307L: Experimental Psychology Lab
  - PSY314: Learning and Animal Behavior (4 hours)
  - PSY316: Thinking, Problem Solving, and Cognition (4 hours)
  - PSY317: Adult Development & Aging (2 hours)
  - PSY321: Personality - Theory and Assessment (4 hours)
  - PSY391: Special Studies in Psychology (2 hours)
  - PSY398: Independent Study in Psychology (1 TO 4 hours)
  - PSY401: Behavioral Neuroscience (4 hours)
  - PSY401L: Behavioral Neuroscience Laboratory
  - PSY403: Capstone-Historical and Modern Viewpoints of Psychology (4 hours)
  - PSY414: Research Methods in Behavior Analysis (2 hours)
  - PSY480: Internship in Psychology (2 TO 4 hours)
  - PSY492: Research Seminar (4 hours)

## Psychology Pre-PT 2015-2016

FALL-1			SPRING-1			SUMMER-1		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
CCS100	CULTURAL SEMINAR	4	ANP140	INTRO A & P II	4	CMP112	COMPUTATIONAL THINKING I	4
ANP130	INTRO A & P I	4	PHY101	INTRO PHYSICS I	4	GE1	GENERAL EDUCATION DISTR I	4
GE1	GENERAL EDUCATION DISTR I	4	ENG170	WRITING SEMINAR	4			0
PSY101	INTRODUCTORY PSYCHOLOGY	4	GE1	GENERAL EDUCATION DISTR I	4			0
TOT		16	TOT		16	TOT		8
<b>CUM</b>		<b>16</b>	<b>CUM</b>		<b>32</b>	<b>CUM</b>		<b>40</b>
FALL-2			SPRING-2			SUMMER-2		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PHY 102	INTRO PHYSICS II	4	PSY260	HEALTH PSYCHOLOGY	4	CMP 114	COMPUTATIONAL THINKING II-data a	4
CHE101	GENERAL CHEMISTRY I	4	CHE102	GENERAL CHEMISTRY II	4			
GE1	GENERAL EDUCATION DISTR I	4	PSY205	STATISTICS AND EXPERIMENTAL DESIGN	4			
PSY201	ABNORMAL PSYCHOLOGY	4	PSY221	LIFE-SPAN PSYCHOLOGY / CCD	4			
		0	CCS300	CROSS CULTURAL EXPERIENCE	2			
TOT		16	TOT		18	TOT		4
<b>CUM</b>		<b>56</b>	<b>CUM</b>		<b>74</b>	<b>CUM</b>		<b>78</b>
FALL-3			SPRING-3			SUMMER-3		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
GE2	GENERAL ED DIST	4	ANP403	ADV. PHYSIOLOGY	4			0
ANP402	ADV. ANATOMY	4	PSY307	EXPERIMENTAL PSYCHOLOGY	4			0
PSY303	EXPERIMENTAL PSYCHOLOGY	4	PSYELE	PSYCHOLOGY ELECTIVE	4			0
PSY403	PSYCHOLOGY CAPSTONE	4	PSYELE	PSYCHOLOGY ELECTIVE	4			0
		0	CCS400	Global Perspective Colloquium	2			0
TOT		16	TOT		18	TOT		0
<b>CUM</b>		<b>94</b>	<b>CUM</b>		<b>112</b>	<b>CUM</b>		<b>112</b>
FALL-4			SPRING-4			SUMMER-4		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH400	FOUNDATIONS OF PROF. PRACTICE	3	PTH405	NEUROSCIENCE	3	PTH 500	PHYSICAL AGENTS	4
PTH401	STATISTICAL & RESEARCH METHODS	3	PTH411	FOUNDATIONS OF CLINICAL RESEARCH	2	PTH 501	ADVANCED PATIENT MANAGEMENT	3
PTH404	BIOMECHANICS	3	PTH412	TESTS AND MEASURES	3	PTH 512	EVIDENCE INTO PRACTICE	2
PTH406	EXERCISE PHYSIOLOGY	3	PTH414	ADVANCED KINESIOLOGY	3	PTH 520	PROFESSIONAL PRACTICE I	2
PTH408	INTRODUCTION TO PATIENT MANAGEMENT	3	PTH416	THERAPEUTIC EXERCISE	4	PTH 521	TEACHING LABORATORY PRACTICUM	2
		0			0	PTH 525	SYSTEMS DEVELOPMENT	2
TOT		15	TOT		15	TOT		15
<b>CUM</b>		<b>127</b>	<b>CUM</b>		<b>142</b>	<b>CUM</b>		<b>157</b>
FALL-5			SPRING-5			SUMMER-5		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 507	ORTHOPEDICS I	2	PTH 506	MOTOR CONTROL	4	PTH 611	CLINICAL INTERNSHIP II (12 WKS)	12
PTH 509	INTRODUCTION TO PHARMACOLOGY	2	PTH 508	GENERAL MEDICINE I	4			0
PTH 515	CLINICAL INTERNSHIP I (FINAL 7 WKS)	7	PTH 517	ORTHOPEDICS II	4			0
PTH 516	HUMAN MOTOR LEARNING (FINAL 7 WKS)	2	PTH 522	EVIDENCE BASED DECISION MAKING	2			0
PTH 535	APPLIED HUMAN BEHAVIOR (ENTIRE SEMES)	1	PTH 530	PROFESSIONAL PRACTICE II	2			0
		0	PTH 531	TEACHING LABORATORY PRACTICUM II	2			0
TOT		14	TOT		18	TOT		12
<b>CUM</b>		<b>171</b>	<b>CUM</b>		<b>189</b>	<b>CUM</b>		<b>201</b>
FALL-6			SPRING-6			SUMMER-6		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 606	NEUROLOGICAL SYSTEM DISORDERS	4	PTH614	CLINICAL INTERNSHIP III (16 WKS)	16			0
PTH 607	ORTHOPEDICS III	3						0
PTH 608	GENERAL MEDICINE II	4			0			0
PTH 620	PROFESSIONAL PRACTICE III	2			0			0
PTH 621	TEACHING LABORATORY PRACTICUM III	2			0			0
PTH 635	PEDIATRIC CARE	2			0			0
TOT		17	TOT		16			0
<b>CUM</b>		<b>218</b>	<b>CUM</b>		<b>234</b>	<b>CUM</b>		<b>234</b>

**College of Arts and Sciences**

Communication and Sociology  
 Computational and Physical Sciences  
 Education  
 English and Modern Languages  
 History, Political Science and Religious Studies  
 Life Sciences  
[Visual and Performing Arts](#)  
 » Undergraduate

**Department: Visual and Performing Arts**

Chairperson: Amy Cropper  
 Room: Humphrey Art Center 112 Email: [acropper@carrollu.edu](mailto:acropper@carrollu.edu)  
 Telephone: 262-524-7191 Fax: 262-574-2629

**DEPARTMENT FACULTY**

<b>Name</b>	<b>Title</b>	<b>Area</b>	<b>Email</b>
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Larry Harper	Professor of Music	Music and Music Education	<a href="mailto:lharper@carrollu.edu">lharper@carrollu.edu</a>
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James Zager	Associate Professor in Theatre Arts	Theatre and Arts Management	<a href="mailto:jzager@carrollu.edu">jzager@carrollu.edu</a>

**PROGRAMS OF STUDY****Majors**

[Art \(48 credits\)](#)  
[Graphic Communication \(52 credits\)](#)  
[Music](#)  
[Music Education](#)  
[Music Therapy](#)  
[Photography \(48 credits\)](#)  
[Theatre & Arts Management \(40 credits\)](#)

**Minors**

[Art \(20 credits\)](#)  
[Arts Management \(26 credits\)](#)  
[Graphic Design \(20 credits\)](#)  
[Music \(24-28 credits\)](#)  
[Photography \(20 credits\)](#)  
[Theatre Arts \(16 credits\)](#)  
[Web Design \(20 credits\)](#)

**Programs**

Undergraduate  
[Art and Photography](#)  
[Graphic Communication](#)  
[Music and Music Education](#)  
[Music Therapy Program](#)  
[Theatre & Arts Management](#)

**Visual and Performing Arts****Undergraduate**

- » Art and Photography
- » Graphic Communication
- » Music and Music Education
- » Music Therapy Program
- » Theatre & Arts Management

**Program: Undergraduate**

College of Arts and Sciences  
Department: Visual and Performing Arts

- **Art and Photography**

**Amy A. Cropper****Peggy Thurston Farrell****Phillip L. Krejcarek****Jennifer A. Moon****Pacia Sallomi****Department Chair and Associate Professor of Art****Associate Professor of Art****Professor of Art****Assistant Professor of Photography and Digital Media****Professor of Art****Art Major**

The art major offers several directions for the student who has an interest and talent in the visual expressive arts. Individualized advising helps the student choose a major with one of the following two emphases:

1. Fine arts which prepares students for careers in gallery/museum or arts administration, or for graduate work in studio art, commercial art, art therapy, or art history.
2. Art education which prepares students for K-12 teaching certification.

All majors are encouraged to attend art exhibition openings and/or workshops and field trips sponsored or approved by the art faculty. All majors are required to create a sophomore portfolio and have a senior show and portfolio to be approved by the art faculty.

**Learning Outcomes for Art**

Upon graduation, the art student will be able to demonstrate:

1. Mastery of skills in his/her chosen area of emphasis.
2. Familiarity with the history of art and the ability to discuss it within the context of their work.
3. Ability to write articulately about art.
4. Ability to present self and work professionally.
5. Ability to develop a cohesive body of work.

- Core Courses

- ART103: Prehistoric to Renaissance- Art History Survey (4 hours)
- ART104: Renaissance to Early Modernism- Art History Survey (4 hours)
- ART106: Drawing and Composition (4 hours)
- ART107: Beginning Design 2D and 3D (4 hours)
- ART206: Intermediate and Life Drawing (4 hours)
- ART300: Early Modernism to Present-Art History Survey (4 hours)
- ART490: Capstone in Art (4 hours)

- Fine Arts Emphasis

**Fine Arts Emphasis**

- Core Courses, plus
  - ART201: Painting I (4 hours)
  - ART209: Photography I (4 hours)  
OR -ART230: Printmaking I (4 hours)
  - ART220: Sculpture I (4 hours)
  - ART225: Ceramics I (4 hours)  
OR -ART235: Art Metals (4 hours)
  - ART301: Painting II (4 hours)  
OR -ART320: Sculpture II (4 hours)  
OR -ART325: Ceramics II (4 hours)  
OR -ART330: Printmaking II (4 hours)
- In Addition:

Fine Arts students interested in gallery/museum, art therapy, arts administration or commercial art should plan to take an internship in the field. Those interested in graduate work in studio art or art history should work to fit in extra studio or art history courses, respectively, as time allows. Students planning to go on for Art Therapy should consider adding a Psychology Minor.

Double majoring or minoring in Business or Graphic Communication may also be of interest to Fine Art students.

- Bachelor of Arts Requirement

**Bachelor of Arts Requirement**

The requirements for a Bachelor of Arts are:

- Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- **MAT106** or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Art Education Emphasis

#### Art Education Emphasis

- Core Course, plus
  - ART201: Painting I (4 hours)
  - ART209: Photography I (4 hours)
  - ART211: Gallery/Museum Experience (1 TO 2 hours)
  - ART220: Sculpture I (4 hours)
  - ART225: Ceramics I (4 hours)
  - ART230: Printmaking I (4 hours)
  - ART235: Art Metals (4 hours)
  - ART258: Visual Communication (4 hours)
- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Photography Major

#### PHOTOGRAPHY MAJOR

Students seeking an in-depth study of photography as a fine art may choose the photography major.

All majors are encouraged to attend art exhibition openings and/or workshops and field trips sponsored or approved by the Department of Visual and Performing Arts. All majors are required to create a sophomore portfolio and have a senior show and portfolio to be approved by the art faculty.

#### Learning Outcomes for Photography

Upon graduation, the photography student will be able to demonstrate:

1. Proficiency in the use of a variety of cameras, including digital and video.
2. Mastery in the creation and analysis of photographic images.
3. Mastery in the development of film and printing and in the presentation of the final image.
4. Knowledge of the history of photography.
5. Proficiency in the use of software to edit and manipulate images.
6. Ability to write articulately about art.
7. Ability to develop a cohesive body of work

- Core Courses
  - ART106: Drawing and Composition (4 hours)
  - ART209: Photography I (4 hours)
  - ART215: History of Photography (4 hours)
  - ART258: Visual Communication (4 hours)
  - ART300: Early Modernism to Present-Art History Survey (4 hours)
  - ART309: Photography II - Fine Art (4 hours)
  - ART310: Photography II - Commercial (4 hours)
  - ART314: Photography II Studio Lighting (4 hours)
  - ART480: Internship in Art (1 TO 4 hours)
  - ART490: Capstone in Art (4 hours)
  - GRC150: Digital Toolbox - Photoshop/ Illustrator 1 (4 hours)
  - GRC330: Digital Video I (4 hours)

NOTE: \*\*Students must earn a total of 4 credits in ART480.\*\*

- o In addition, students are encouraged to select from the following courses:
  - o BUS101: Introduction to Business (4 hours)
  - o COM203: Advertising (4 hours)
  - o COM255: Digital Journalism (4 hours)
- o Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- o CMP112 and either CMP113 or CMP114 or
- o MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- o The Pioneer Core Program
  - o Cross-Cultural Component
  - o Distribution Component
  - o GE1 and GE2 Courses
  - o Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- o Art Minor
  - o ART106: Drawing and Composition (4 hours)
  - o ART107: Beginning Design 2D and 3D (4 hours)
  - o One Art History Survey Course:
    - o ART103: Prehistoric to Renaissance- Art History Survey (4 hours)
    - o ART104: Renaissance to Early Modernism- Art History Survey (4 hours)
    - o ART300: Early Modernism to Present-Art History Survey (4 hours)
  - o Two additional studio art courses selected from the following:
    - o ART201: Painting I (4 hours)  
OR -ART301: Painting II (4 hours)  
OR -ART401: Painting III (4 hours)
    - o ART206: Intermediate and Life Drawing (4 hours)
    - o ART220: Sculpture I (4 hours)  
OR -ART320: Sculpture II (4 hours)
    - o ART225: Ceramics I (4 hours)  
OR -ART325: Ceramics II (4 hours)
    - o ART230: Printmaking I (4 hours)  
OR -ART330: Printmaking II (4 hours)
    - o ART235: Art Metals (4 hours)
- o Photography Minor
  - o ART209: Photography I (4 hours)
  - o ART215: History of Photography (4 hours)
  - o GRC150: Digital Toolbox - Photoshop/ Illustrator 1 (4 hours)
  - o Two of the following courses:
    - o ART309: Photography II - Fine Art (4 hours)
    - o ART310: Photography II - Commercial (4 hours)
    - o ART314: Photography II Studio Lighting (4 hours)
- o Courses offered by the program:
  - o ART103: Prehistoric to Renaissance- Art History Survey (4 hours)
  - o ART104: Renaissance to Early Modernism- Art History Survey (4 hours)
  - o ART106: Drawing and Composition (4 hours)
  - o ART107: Beginning Design 2D and 3D (4 hours)
  - o ART201: Painting I (4 hours)
  - o ART206: Intermediate and Life Drawing (4 hours)
  - o ART209: Photography I (4 hours)
  - o ART211: Gallery/Museum Experience (1 TO 2 hours)
  - o ART212: Introduction to Book Art (4 hours)
  - o ART215: History of Photography (4 hours)
  - o ART220: Sculpture I (4 hours)
  - o ART223: Creative Arts for Children (2 hours)
  - o ART225: Ceramics I (4 hours)
  - o ART230: Printmaking I (4 hours)
  - o ART235: Art Metals (4 hours)
  - o ART258: Visual Communication (4 hours)
  - o ART291: Special Topics in Art (2 TO 4 hours)
  - o ART298: Independent Study (1 TO 4 hours)
  - o ART300: Early Modernism to Present-Art History Survey (4 hours)
  - o ART301: Painting II (4 hours)
  - o ART306: Advanced and Life Drawing (4 hours)
  - o ART309: Photography II - Fine Art (4 hours)
  - o ART310: Photography II - Commercial (4 hours)
  - o ART313: Travel Journals-Italy (4 hours)
  - o ART314: Photography II Studio Lighting (4 hours)
  - o ART320: Sculpture II (4 hours)
  - o ART325: Ceramics II (4 hours)
  - o ART330: Printmaking II (4 hours)
  - o ART340: Advanced Media Studies (4 hours)
  - o ART353: Methods of Teaching Secondary Art (2 hours)
  - o ART391: Special Topics in Art (4 hours)
  - o ART398: Independent Study in Art (1 TO 4 hours)
  - o ART401: Painting III (4 hours)
  - o ART480: Internship in Art (1 TO 4 hours)
  - o ART490: Capstone in Art (4 hours)
  - o THE111: Introduction to World Dance (4 hours)
  - o THE160: Introduction to Fine Arts Administration (4 hours)

- **Graphic Communication**  
**Daniel M. Becker**                    **Director/Assistant Professor**  
**Michael Mortensen**                **Lecturer in Graphic Communications**  
**Julie VonDerVellen**                **Lecturer in Graphic Communications**

### Preparing Professionals One Student at a Time

Graphic Communication at Carroll University is an interdisciplinary major from the graphic communication, art, business, and computer science programs. This major is offered in conjunction with a required 120-hour internship and a capstone experience in which students independently create real world projects. The two minors offered within Graphic Communication are aimed toward students who plan to major in other academic programs and acknowledge the integrated usefulness of Graphic Communication within their major area of study.

### Learning Outcomes for Graphic Communication

Upon graduation, the graphic communication student will be able to:

1. Measurably demonstrate and apply a high competency working knowledge of various digital software applications and hardware components.
2. Measurably demonstrate and apply industry-standard graphic design principles as they pertain to various digital media vehicles.
3. Apply learning outcome skill sets to produce digital media projects for the purpose of communication on behalf of client/audience objectives.
4. Create communication-based creative solutions to effectively broadcast specific messages that utilize typography, color, digital photography, images, digital video and print.
5. Utilizing historical documentation for reference, case studies for application, and examples of industry trends, students will apply their skill set to create messages that communicate across a variety of media.
6. Utilizing "real world" strategy, concept and application, students will implement their skill set of technology, understanding of design theory, identification with audience, and association with various delivery methods to produce graphic communication materials that best represent client goals.
7. Pay special attention to and evaluate software and hardware capabilities, lifespan, and usefulness, which will guide them to an understanding of the role of graphic design management.
8. Participate in the writing of creative briefs, apply the dynamics of communication practices, as well as investigate and understand the role of branding, marketing, and advertising.
9. Utilize website construction software and apply the appropriate skill set to develop online portfolios and client-based solutions.
10. Develop the ability to think critically, to problem solve, and to generate creative solutions.

The graphic communication industry rapidly and continuously changes. This graphic communication major has progressive offerings that teach students the use of myriad tools and methodologies needed to succeed in the industry for the 21st century. The graphic communication, art, business, and computer science programs combine to provide students with the latest advancements, information, and methodologies. The print management emphasis is for students wishing to enter the print industry and is a collaborative program with Waukesha County Technical College. The print management emphasis is based upon both the actual operation of print presses as well as design/management/business concepts.

- **Graphic Communication Major**
  - ART106: Drawing and Composition (4 hours)
  - ART107: Beginning Design 2D and 3D (4 hours)
  - GRC106: Intro-Communication Technology (2 hours)
  - GRC150: Digital Toolbox - Photoshop/ Illustrator 1 (4 hours)
  - GRC200: Color and Typography (4 hours)
  - GRC210: History of Graphic Design (2 hours)
  - GRC290: Digital Design Studio (4 hours)
  - GRC295: 3-D Digital Design (4 hours)
  - GRC320: Intro to Multimedia Production (4 hours)
  - GRC330: Digital Video I (4 hours)
  - GRC390: Advanced Design Thinking (4 hours)
  - GRC395: Advanced Design Application (4 hours)
  - GRC450: Capstone-Projects for Graphic Communication Majors (4 hours)
  - GRC480: Internship-Graphic Communication (1 TO 12 hours)
- Recommended Support Courses
  - ART209: Photography I (4 hours)
  - ART230: Printmaking I (4 hours)
  - ART258: Visual Communication (4 hours)
  - BUS301: Principles of Marketing (4 hours)
  - BUS320: Promotion Management (4 hours)
- Bachelor of Science Requirement

### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- **The Pioneer Core Program**



- Cross-Cultural Component
- Distribution Component
- GE1 and GE2 Courses
- Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Print Management Emphasis in conjunction with Waukesha County Technical College (57 credits)
  - GRC110: Print Media/Digital Publishing I (3 hours)
  - GRC120: Print Media II (3 hours)
  - GRC121: Digital Illustration (3 hours)
  - GRC122: Post Press/Distribution (3 hours)
  - GRC130: Print Media III (3 hours)
  - GRC135: Digital Workflows (3 hours)
  - GRC140: Print Materials and Estimating (3 hours)
  - GRC141: Production Coordination/Customer Service (3 hours)
  - GRC142: Color Management (3 hours)
  - GRC450: Capstone-Projects for Graphic Communication Majors (4 hours)
  - GRC480: Internship-Graphic Communication (1 TO 12 hours)
  - Required Support Courses
    - ACC205: Financial Accounting (4 hours)
    - BUS101: Introduction to Business (4 hours)
    - BUS301: Principles of Marketing (4 hours)
    - BUS302: Principles of Management (4 hours)
    - BUS305: Principles of Operations Management (4 hours)
    - CSC109: Technological Productivity (2 hours)
    - CMP112: Computational Thinking I (4 hours)
  - Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
- Graphic Design Minor (20 credits)
  - GRC106: Intro-Communication Technology (2 hours)
  - GRC150: Digital Toolbox - Photoshop/ Illustrator 1 (4 hours)
  - GRC200: Color and Typography (4 hours)
  - GRC210: History of Graphic Design (2 hours)
  - GRC230: Digital Photography (4 hours)
  - OR -GRC330: Digital Video I (4 hours)
  - GRC320: Intro to Multimedia Production (4 hours)
- Web Design Minor (20 credits)
  - CSC109: Technological Productivity (2 hours)
  - GRC106: Intro-Communication Technology (2 hours)
  - GRC150: Digital Toolbox - Photoshop/ Illustrator 1 (4 hours)
  - GRC200: Color and Typography (4 hours)
  - GRC320: Intro to Multimedia Production (4 hours)
  - GRC360: Interactive Media (4 hours)
- Courses offered by the program:
  - GRC106: Intro-Communication Technology (2 hours)
  - GRC110: Print Media/Digital Publishing I (3 hours)
  - GRC120: Print Media II (3 hours)
  - GRC121: Digital Illustration (3 hours)
  - GRC122: Post Press/Distribution (3 hours)
  - GRC130: Print Media III (3 hours)
  - GRC135: Digital Workflows (3 hours)
  - GRC140: Print Materials and Estimating (3 hours)
  - GRC141: Production Coordination/Customer Service (3 hours)
  - GRC142: Color Management (3 hours)
  - GRC150: Digital Toolbox - Photoshop/ Illustrator 1 (4 hours)
  - GRC200: Color and Typography (4 hours)
  - GRC210: History of Graphic Design (2 hours)
  - GRC290: Digital Design Studio (4 hours)
  - GRC295: 3-D Digital Design (4 hours)
  - GRC320: Intro to Multimedia Production (4 hours)
  - GRC330: Digital Video I (4 hours)
  - GRC390: Advanced Design Thinking (4 hours)
  - GRC391: Special Studies/Topics (1 TO 4 hours)
  - GRC395: Advanced Design Application (4 hours)
  - GRC450: Capstone-Projects for Graphic Communication Majors (4 hours)
  - GRC480: Internship-Graphic Communication (1 TO 12 hours)
  - GRC491: Special Studies/Topics (1 TO 4 hours)

#### • Music and Music Education

<b>Patrick Dill</b>	<b>Director of Choral Activities</b>
<b>Larry D. Harper</b>	<b>Professor of Music</b>
<b>Joel Matthys</b>	<b>Lecturer in Music</b>

The Music Program offers majors in music and music education, as well as a minor in music.

- Music Major

#### Music Major



The music major offers both liberal arts and professional degrees as a preparation for a variety of careers, including music performance, music education, and business. For the performance emphasis, two one-hour recitals are required in successive years, usually during the junior and senior year. The liberal arts emphasis requires a half-hour recital in the final semester of study. A proficiency in piano must be passed by students with the performance emphasis or bachelor of music education degree. This competency should be completed by the end of the sophomore year. Acceptance into the performance emphasis requires a special audition. Performance juries are required of all music majors and minors each semester.

Any student may be admitted to the music program with provisional status for the first year of study. Students with prior music theory training may take a music theory diagnostic examination to determine placement. At the end of the first year, all music students must pass an entrance audition for full music major status. Students undergo a portfolio review at the end of the sophomore year to discuss career goals and progress in the degree.

- o Learning Outcomes

**Learning Outcomes for Music**

Students studying music will develop:

1. The ability to hear, identify, and work conceptually with the elements of music such as rhythm, melody, harmony, structure, timbre, and texture.
2. The ability to read, realize, and understand musical notation.
3. An understanding of compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces.
4. An acquaintance with a wide selection of musical literature, the principal eras, genres, and cultural sources.
5. The ability to develop and defend musical judgments.
6. The ability to perform appropriate undergraduate level music with proficiency alone and in ensemble settings.
7. Understanding of procedures for realizing a variety of musical styles.
8. Knowledge and/or skills in one or more areas of music beyond basic musicianship appropriate to the individual's needs and interests.
9. Understanding of and experience in one or more art forms other than music.

- o Mission Statement and Program Goals

**Carroll University Music Program Mission Statement**

The music program at Carroll University seeks to provide instruction and high quality musical experiences to music majors and non-majors, and provide opportunities for Carroll and the larger community to experience high-caliber musical performances. We seek to develop graduates with exemplary musical skill and a strong body of knowledge suited to each individual's musical and/or career interests through rigorous training in musicianship and theory, private instruction on individual instruments and voice, and a diversity of courses in various genres, styles, and approaches to professional music-making.

**Music Department Goals**

1. Foster conceptual understanding of musical components and processes
2. Provide opportunities for continued practice in creating, interpreting, presenting, analyzing, and evaluating music
3. Develop increased understanding of musical achievements from various analytical, historical, and cultural perspectives
4. Develop enhanced capacities to integrate musical knowledge and skills
5. Foster a set of capabilities for independent work in the music professions

- o Music Major - Liberal Arts Emphasis

- o Core Courses
  - o MUS111: Music Theory I (3 hours)
  - o MUS112: Music Theory II (3 hours)
  - o MUS113: Musicianship I (1 hours)
  - o MUS114: Musicianship II (1 hours)
  - o MUS303: Conducting I (2 hours)
  - o MUS471: Senior Recital
  - o MUS499: Music Capstone (2 hours)
  - o Pick two of the following
    - o MUS151: History of Jazz (4 hours)
    - o MUS156: Listening to Classical Music (4 hours)
    - o MUS158: Rock Music - Roots and History (4 hours)
    - o MUS311: Music History I - Early Music through the Baroque Period (4 hours)
    - o MUS312: Music History II - The Classic and Romantic Periods (4 hours)
  - o Applied Music (7 credits)
  - o Ensemble (eight semesters in Music 185, 187 or 188)
  - o Four additional credits of music coursework.
  - o Four credits of elective VPA coursework outside of music.
- o Bachelor of Arts Requirement

**Bachelor of Arts Requirement**

The requirements for a Bachelor of Arts are:

- o Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from

another college/university as long as all 8 credits are completed in the same language.

- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- **MAT106** or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- **The Pioneer Core Program**
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- **Music Major - Performance Emphasis**
  - Core Courses
    - MUS111: Music Theory I (3 hours)
    - MUS112: Music Theory II (3 hours)
    - MUS113: Musicianship I (1 hours)
    - MUS114: Musicianship II (1 hours)
    - MUS211: Music Theory III (3 hours)
    - MUS213: Musicianship III (1 hours)
    - MUS214: Musicianship IV (1 hours)
    - MUS303: Conducting I (2 hours)
    - MUS311: Music History I - Early Music through the Baroque Period (4 hours)
    - MUS312: Music History II - The Classic and Romantic Periods (4 hours)
    - MUS313: Music History III - The 20th Century (2 hours)

In addition to the required courses above:

Eight semesters in a music ensemble for a total of 8 credits  
(Wind Symphony, Concert Choir, or Women's Ensemble)

Applied Music - 1 credit for 1 semester; 2 credits for 7 semesters for a total of 15 credits

MUS470

MUS471

- Bachelor of Arts Requirement

#### **Bachelor of Arts Requirement**

The requirements for a Bachelor of Arts are:

- Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- **MAT106** or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- **The Pioneer Core Program**
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- **Double Major in Business Administration and Music**

#### **Double Major in Business Administration and Music**

Students interested in the field of music business may double-major in Business Administration Music Liberal Arts and/or minor in Arts Management.

[Click here to view a four-year plan.](#)

- **Bachelor of Music Education**

The bachelor of music education prepares students to a high level within the discipline of music, including performance, theory and history, and, at the same time, prepares future teachers for careers of distinction and leadership. The central philosophy of the degree is that music teachers can be most effective only by first becoming accomplished musicians themselves, capable of performing, conducting and analyzing at a sophisticated level.

Two half-hour recitals are required in successive years, usually during the junior and senior year. A voice competency is required of all instrumental music education majors. A proficiency in piano must be passed by all bachelor of music education majors. This competency should be completed by the end of the sophomore year.

There is no incoming freshman entrance audition at Carroll. We accept all students as provisional music majors for their first year of study. At the end of the first year, music majors audition for the faculty to be elevated to full music major status. At the end of the sophomore year, the music faculty meet with every student to discuss career goals and progress.

Transfer students must take a music theory placement examination before registering for music courses.

Students in the BME degree program must meet all requirements of the secondary education minor including the required core (except EDU 100, EDU 209, EDU 265, EDU 353 and EDU 304), all General Education courses required by the Education Department, and state licensing requirements of the Teacher Education Program (TEP).

- o Core Courses

- Applied Lessons (13 credits)

- Ensemble (7 semesters required)

- o EDU102L: Exploration in Music Education Laboratory
- o MUS105: Class Piano I (1 hours)
- o MUS106: Class Piano II (1 hours)
- o MUS107: Class Piano III (1 hours)
- o MUS108: Class Piano IV (1 hours)
- o MUS111: Music Theory I (3 hours)
- o MUS112: Music Theory II (3 hours)
- o MUS113: Musicianship I (1 hours)
- o MUS114: Musicianship II (1 hours)
- o MUS211: Music Theory III (3 hours)
- o MUS212: Music Theory IV (3 hours)
- o MUS213: Musicianship III (1 hours)
- o MUS214: Musicianship IV (1 hours)
- o MUS303: Conducting I (2 hours)
- o MUS307: Practical Keyboard Harmony (1 hours)
- o MUS311: Music History I - Early Music through the Baroque Period (4 hours)
- o MUS312: Music History II - The Classic and Romantic Periods (4 hours)
- o MUS313: Music History III - The 20th Century (2 hours)
- o MUS470: Junior Recital
- o MUS471: Senior Recital
- o Required Support Courses
  - o EDU203: Educational Psychology (4 hours)
  - o EDU210: Field Experience in Educ I (1 hours)
  - o EDU261: Educ of the Exceptional Child (4 hours)
  - o EDU301: Democracy, Schools, and Society (4 hours)
  - o EDU306: Literacy in Middle/Secondary School Content Areas (3 hours)
  - o EDU311: Field Experience in Education II (1 hours)
  - o EDU409: Secondary and K-12 Student Tchng (6 hours)
  - o EDU410: Secondary and K-12 Student Tchng (6 hours)
- o Bachelor of Music Education (BME)

B.M.E. students will meet the Bachelor of Arts requirements (B.M.E. students, as teachers, need the language experience to support their humanities education).

Bachelor of Arts students must take 8 credits in a modern language (MLL) other than English and MAT106 or higher.

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- o The Pioneer Core Program
  - o Cross-Cultural Component
  - o Distribution Component
  - o GE1 and GE2 Courses
  - o Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- o Instrumental Emphasis
  - o Core Courses, and Required Support Courses plus
    - o MUS117: Class Voice (1 hours)
    - o MUS251: String Methods (1 hours)
    - o MUS252: Percussion Methods (1 hours)
    - o MUS253: Woodwind Methods (1 hours)
    - o MUS255: Brass Methods (1 hours)
    - o MUS304: Conducting II (2 hours)
    - o MUS355: Instrumental Methods (4 hours)
  - o Choral Emphasis
    - o Core Courses and Required Support Courses plus
      - Secondary Applied Instrument (3 credits)
        - o MUS304: Conducting II (2 hours)
        - o MUS323: Diction - German and English (1 hours)
        - o MUS324: Diction - French and Italian (1 hours)
        - o MUS353: Choral Methods and Literature (4 hours)
        - o MUS357: Choral Literature & Performance Practice (2 hours)
        - o MUS366: Voice Pedagogy (2 hours)
    - o General Emphasis
      - o Core Courses, plus
        - Secondary Applied Instrument (3 credits)
          - o MUS304: Conducting II (2 hours)
          - OR -MUS305: Conducting II - Instrumental (2 hours)

- MUS354: General Music in the Schools (2 hours)
- MUS359: Orff/Kodaly Methods (4 hours)
  
- Music Minor (24-28 credits)
  - Core Courses
    - MUS111: Music Theory I (3 hours)
    - MUS112: Music Theory II (3 hours)
    - MUS113: Musicianship I (1 hours)
    - MUS114: Musicianship II (1 hours)
    - MUS156: Listening to Classical Music (4 hours)

Applied Music (four credits)

Ensemble: four semesters (at least one credit per semester).

Four additional elective credits from the 200-400 level.

- Courses offered by the program:
  - MUS105: Class Piano I (1 hours)
  - MUS106: Class Piano II (1 hours)
  - MUS107: Class Piano III (1 hours)
  - MUS108: Class Piano IV (1 hours)
  - MUS111: Music Theory I (3 hours)
  - MUS112: Music Theory II (3 hours)
  - MUS113: Musicianship I (1 hours)
  - MUS114: Musicianship II (1 hours)
  - MUS117: Class Voice (1 hours)
  - MUS151: History of Jazz (4 hours)
  - MUS156: Listening to Classical Music (4 hours)
  - MUS157: Beethoven (4 hours)
  - MUS158: Rock Music - Roots and History (4 hours)
  - MUS159: Electronic Music (4 hours)
  - MUS161: Violin (1 TO 2 hours)
  - MUS162: Viola (1 TO 2 hours)
  - MUS163: Cello (1 TO 2 hours)
  - MUS164: Bass (1 TO 2 hours)
  - MUS165: Guitar (1 TO 2 hours)
  - MUS166: Harp (1 TO 2 hours)
  - MUS167: Piano (1 TO 2 hours)
  - MUS168: Organ (1 TO 2 hours)
  - MUS169: Voice (1 TO 2 hours)
  - MUS170: Flute (1 TO 2 hours)
  - MUS171: Oboe (1 TO 2 hours)
  - MUS172: Clarinet (1 TO 2 hours)
  - MUS173: Bassoon (1 TO 2 hours)
  - MUS174: Saxophone (1 TO 2 hours)
  - MUS175: Horn (1 TO 2 hours)
  - MUS176: Trumpet (1 TO 2 hours)
  - MUS177: Trombone (1 TO 2 hours)
  - MUS178: Tuba (1 TO 2 hours)
  - MUS179: Percussion (1 TO 2 hours)
  - MUS181: Class Guitar (1 hours)
  - MUS182: Introduction to Rhythmic Movement (1 hours)
  - MUS183: Men's Chorus (1 hours)
  - MUS185: Concert Choir (1 hours)
  - MUS186: Chamber Singers (1 hours)
  - MUS187: Women's Choir (1 hours)
  - MUS188: Wind Symphony (1 hours)
  - MUS189: Jazz Lab (1 hours)
  - MUS190: Chamber Music (1 hours)
  - MUS191: Chamber Orchestra (1 hours)
  - MUS192: The Carroll Chorale (1 hours)
  - MUS211: Music Theory III (3 hours)
  - MUS212: Music Theory IV (3 hours)
  - MUS213: Musicianship III (1 hours)
  - MUS214: Musicianship IV (1 hours)
  - MUS251: String Methods (1 hours)
  - MUS252: Percussion Methods (1 hours)
  - MUS253: Woodwind Methods (1 hours)
  - MUS255: Brass Methods (1 hours)
  - MUS291: Topics in Music (2 TO 4 hours)
  - MUS298: Independent Study in Music (1 TO 4 hours)
  - MUS303: Conducting I (2 hours)
  - MUS304: Conducting II (2 hours)
  - MUS307: Practical Keyboard Harmony (1 hours)
  - MUS311: Music History I - Early Music through the Baroque Period (4 hours)
  - MUS312: Music History II - The Classic and Romantic Periods (4 hours)
  - MUS313: Music History III - The 20th Century (2 hours)
  - MUS323: Diction - German and English (1 hours)
  - MUS324: Diction - French and Italian (1 hours)
  - MUS350: Materials/Techniques Elem Music (2 hours)
  - MUS353: Choral Methods and Literature (4 hours)
  - MUS354: General Music in the Schools (2 hours)
  - MUS355: Instrumental Methods (4 hours)

- o MUS357: Choral Literature & Performance Practice (2 hours)
- o MUS359: Orff/Kodaly Methods (4 hours)
- o MUS366: Voice Pedagogy (2 hours)
- o MUS391: Topics in Music (2 TO 4 hours)
- o MUS398: Independent Study in Music (1 TO 4 hours)
- o MUS430: Vocal Literature (2 hours)
- o MUS470: Junior Recital
- o MUS471: Senior Recital
- o MUS499: Music Capstone (2 hours)

- **Music Therapy Program**  
**Pending AMTA approval**  
**Beth Rousseau**

**Director of Musical Therapy**  
**Clinical Assistant Professor**

#### **Music Therapy Mission**

The Music Therapy Program at Carroll University seeks to develop individuals with musical sensitivity and performance proficiency, an understanding of the principles and goals of music therapy, and a complete clinical training in the techniques of therapeutic practice in preparation for the music therapy board certification exam and a career as a qualified Board Certified Music Therapist.

#### **Music Therapy Goals**

- o **Preparation for Professional Practice** - Professional preparation requires the development of knowledge, skills, and abilities through education, supervision, and pre-professional experiences.
- o **Musical Development** - Musical development is the acquisition of music knowledge, aesthetic sensitivity, and skills relevant to music therapy, and the application of those skills to clinical practice.
- o **Personal Development of the Therapist** - Personal development involves becoming self-aware and actively seeking to further develop the self.
- o **Clinical Experience** - Clinical experience involves observation and provision of music therapy services under the direct supervision of a certified music therapist. The student learns music therapy techniques to meet clients musically and clinically, demonstrating basic knowledge of assessment, treatment, documentation, and evaluation; communicates empathy and establishes therapeutic relationships; and demonstrates understanding of ethical principles and current standards of practice.

#### **Progression Standards for Music Therapy Program**

1. A cumulative GPA of 2.75 and satisfactory completion of the piano, guitar, and voice proficiency exams is required for admission to the professional phase (junior and senior years) of the program.
2. A student must maintain a cumulative university GPA and a semester GPA of 2.75 throughout the professional phase. A student who gets below a 2.75 cumulative and/or session GPA will be placed on academic probation for the following semester. To have the probationary status removed, a student must attain a 2.75 session GPA or higher in subsequent semesters.
3. If a student fails to attain a 2.75 session GPA, s/he will be dismissed from the program.
4. Grades of C or better are required in all music therapy (MTY designation) courses. A satisfactory (S) is required in all completed practica. If a grade below a C is achieved or an S is not achieved, the student may not progress to subsequent courses in the program until the course is successfully repeated.
5. A course may be repeated only one time. A student receiving a D, F, or U twice in music therapy courses (including practica) will be dismissed from the program.
6. When repeating a professional phase music therapy course, a student may be required to successfully complete ancillary learning experiences or clinical competencies/practica that validate theoretical knowledge.
7. The piano, guitar, and voice proficiency exams will only be administered once per semester. They may be repeated as often as necessary.

- o **Core Music Courses**
  - o MUS105: Class Piano I (1 hours)
  - o OR -MUS167: Piano (1 TO 2 hours)
  - o MUS106: Class Piano II (1 hours)
  - o OR -MUS167: Piano (1 TO 2 hours)
  - o MUS111: Music Theory I (3 hours)
  - o MUS112: Music Theory II (3 hours)
  - o MUS113: Musicianship I (1 hours)
  - o MUS114: Musicianship II (1 hours)
  - o MUS151: History of Jazz (4 hours)
  - o MUS158: Rock Music - Roots and History (4 hours)
  - o MUS169: Voice (1 TO 2 hours)
  - o MUS181: Class Guitar (1 hours)
  - o OR -MUS165: Guitar (1 TO 2 hours)
  - o MUS182: Introduction to Rhythmic Movement (1 hours)
  - o MUS211: Music Theory III (3 hours)
  - o MUS213: Musicianship III (1 hours)
  - o MUS214: Musicianship IV (1 hours)
  - o MUS215: Songwriting and Improvisation (1 hours)
  - o MUS220: Functional Guitar (1 hours)
  - o MUS252: Percussion Methods (1 hours)
  - o MUS303: Conducting I (2 hours)
  - o MUS307: Practical Keyboard Harmony (1 hours)
  - o MUS312: Music History II - The Classic and Romantic Periods (4 hours)

Music Ensemble (must be taken 7 times {1 credit x 7})  
Applied Lessons (8 credits)

- Core Music Therapy Courses
  - **MTY101: Introduction to Music Therapy (2 hours)**
  - **MTY180: Music Therapy Practicum (1 or 2 hours)**
  - **MTY251: Psychology of Music (3 hours)**
  - **MTY301: Music Therapy Foundations and Principles (2 hours)**
  - **MTY304: Influence of Music on Behavior (3 hours)**
  - **MTY382: Music Therapy Activities for Specific Populations (2 hours)**
  - **MTY401: Music Therapy Procedures and Applications (2 hours)**
  - **MTY480: Music Therapy Internship (12 hours)**
- Required Support Courses
  - **ANP130: Introduction to Human Anatomy and Physiology I (4 hours)**  
AND -**ANP130L: Intro to Human Anat and Phys I Lab**
  - **PSY101: Introductory Psychology (4 hours)**
  - **PSY201: Abnormal Psychology (4 hours)**
  - **PSY221: Life-Span Psychology (4 hours)**
- Bachelor of Music Therapy Requirements

The requirements for a Bachelor of Music Therapy degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING**

- **The Pioneer Core Program**
  - Cross-Cultural Component
  - Distribution Component
  - **GE1** and **GE2** Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Courses offered by the program:
  - **MTY101: Introduction to Music Therapy (2 hours)**
  - **MTY180: Music Therapy Practicum (1 or 2 hours)**
  - **MTY251: Psychology of Music (3 hours)**
  - **MTY301: Music Therapy Foundations and Principles (2 hours)**
  - **MTY304: Influence of Music on Behavior (3 hours)**
  - **MTY382: Music Therapy Activities for Specific Populations (2 hours)**
  - **MTY401: Music Therapy Procedures and Applications (2 hours)**
  - **MTY480: Music Therapy Internship (12 hours)**

• **Theatre & Arts Management**

<b>Jennifer Dobby</b>	<b>Senior Lecturer in Theatre Arts</b>
<b>Justin Gale</b>	<b>Scene Shop and Production Manager</b>
<b>Cecelia Mason Kuenn</b>	<b>Costume Shop Manager</b>
<b>James Zager</b>	<b>Associate Professor in Theatre Arts</b>

The Theatre & Arts Management Program offers a major in Theatre Arts, and minors in Arts Management, and Theatre.

◦ **Theatre Arts Major (40 credits)**

The Theatre Arts Major is intended to prepare students for continued engagement in the theatre arts, arts management, theatre education, or graduate studies. Through traditional classroom work, participation in fully produced mainstage productions, a multifaceted student theatre season, and in-depth community partnerships, we strive to train the artist of today for the theatre of tomorrow.

**Learning Outcomes for Theatre Arts**

Upon successful completion of major requirements students will be able to demonstrate:

1. An understanding of theatre history and literature in a global context.
2. The skills necessary to take part in the collaborative theatre process.
3. A contextual view of theatre as a unique and vital art form serving a diverse community.

- Core Courses

**Please note: To fulfill the major requirements, students must take a total of 4 credits in **THE100** and/or **THE300**.**

- **THE100: Theatre Participation (1 hours)**  
AND/OR -**THE300: Theatre Practicum (1 hours)**
- **THE101: Introduction to Theatre Arts (4 hours)**
- **THE102: Oral Interpretation and Presentation (4 hours)**
- **THE120: Theatre Crew (2 hours)**
- **THE121: Theatre Crew (2 hours)**
- **THE215: Theatre History and Literature I (4 hours)**
- **THE216: Theatre History and Literature II (4 hours)**
- Advanced Theatre Courses (minimum of four courses/16 credits chose from the following)
  - **THE160: Introduction to Fine Arts Administration (4 hours)**
  - **THE301: Contemporary Acting Styles (4 hours)**
  - **THE302: Period Acting Styles (4 hours)**
  - **THE305: Principles of Production Management (4 hours)**
  - **THE306: Principles of Theatre Design (4 hours)**
  - **THE307: Directing for the Stage (4 hours)**
  - **THE308: Writing for the Stage (4 hours)**

- THE291: Special Studies/Topics in Theatre (1 TO 4 hours)  
AND/OR -THE391: Special Studies/Topics in Theatre (1 TO 4 hours)
- THE380: Internship in Theatre Arts (1 TO 4 hours)  
AND/OR -THE480: Internship in Theatre Arts (1 TO 4 hours)
- THE390: Theatre Projects (1 TO 4 hours)  
AND/OR -THE490: Theatre Projects (1 TO 4 hours)
- Bachelor of Arts Requirement

#### Bachelor of Arts Requirement

The requirements for a Bachelor of Arts are:

- Students must take 8 credits in the same modern language (MLL) other than English, this does not include American Sign Language. Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
- \*\*International students who have English as their second language should contact the Registrar concerning the Modern Language requirement.
- **MAT106** or higher

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR.**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Theatre Minor (16 credits)

The Theatre minor is intended for students who are interested in participating in theatre production, both onstage and off.

- Core Courses

**Please note: To fulfill the minor requirements, students must take a total of 2 credits in THE100 and/or THE300.**

- THE100: Theatre Participation (1 hours)  
OR -THE300: Theatre Practicum (1 hours)
- THE101: Introduction to Theatre Arts (4 hours)  
OR -THE102: Oral Interpretation and Presentation (4 hours)
- THE120: Theatre Crew (2 hours)  
OR -THE121: Theatre Crew (2 hours)
- THE215: Theatre History and Literature I (4 hours)  
OR -THE216: Theatre History and Literature II (4 hours)
- In addition, Theatre minor students are required to take 4 credits from one of the following advanced theatre courses:
  - THE160: Introduction to Fine Arts Administration (4 hours)
  - THE301: Contemporary Acting Styles (4 hours)
  - THE302: Period Acting Styles (4 hours)
  - THE305: Principles of Production Management (4 hours)
  - THE306: Principles of Theatre Design (4 hours)
  - THE307: Directing for the Stage (4 hours)
  - THE308: Writing for the Stage (4 hours)
  - THE291: Special Studies/Topics in Theatre (1 TO 4 hours)  
OR -THE391: Special Studies/Topics in Theatre (1 TO 4 hours)
  - THE390: Theatre Projects (1 TO 4 hours)  
OR -THE490: Theatre Projects (1 TO 4 hours)
- Arts Management Minor (26 credits)

The Arts Management minor is designed for students with a major in Art, Graphic Communications, Photography, Theatre Arts, or Music, although it may have a broader appeal and is open to any student who is interested.

#### Learning Outcomes for Arts Management

Upon completion of the minor, students will be able to:

1. Demonstrate knowledge and understanding of arts organizations and venues, how they are managed, and their relevance within the larger community.
2. Demonstrate awareness of the role and responsibilities of the manager within arts organizations and/or venues and within the larger cultural and social context.
3. Explain and respond to the challenges faced by arts managers and arts organizations in the areas of organization, promotion, funding and legal issues

**Please note:** Arts Management minors interested in applying for Carroll's MBA program should choose ACC 205 (an elective below) and plan to take CMP112.

- Courses required for the minor
  - BUS290: Principles of Business Law (2 hours)
  - BUS301: Principles of Marketing (4 hours)
  - BUS302: Principles of Management (4 hours)
  - ECO124: Principles of Economics I - Microeconomics (4 hours)
  - THE160: Introduction to Fine Arts Administration (4 hours)
- One of the following:
  - ART103: Prehistoric to Renaissance- Art History Survey (4 hours)
  - ART104: Renaissance to Early Modernism- Art History Survey (4 hours)
  - ART215: History of Photography (4 hours)
  - MUS151: History of Jazz (4 hours)
  - MUS156: Listening to Classical Music (4 hours)



- MUS158: Rock Music - Roots and History (4 hours)
- THE101: Introduction to Theatre Arts (4 hours)
- THE215: Theatre History and Literature I (4 hours)
- THE216: Theatre History and Literature II (4 hours)
- One of the following:
  - ACC205: Financial Accounting (4 hours)
  - BUS260: Ethics in Business, Govt, and Society (4 hours)
  - BUS265: Human Resource Management (4 hours)
  - COM208: Introduction to Public Relations (4 hours)
  - ECO225: Principles of Economics II - Macroeconomics (4 hours)
  - ENG230: Grant Writing (4 hours)
- Courses offered by the program:
  - THE100: Theatre Participation (1 hours)
  - THE101: Introduction to Theatre Arts (4 hours)
  - THE101L: Performance Field Trips
  - THE102: Oral Interpretation and Presentation (4 hours)
  - THE111: Introduction to World Dance (4 hours)
  - THE120: Theatre Crew (2 hours)
  - THE121: Theatre Crew (2 hours)
  - THE160: Introduction to Fine Arts Administration (4 hours)
  - THE200: Theatre Workshops (1 TO 2 hours)
  - THE215: Theatre History and Literature I (4 hours)
  - THE216: Theatre History and Literature II (4 hours)
  - THE291: Special Studies/Topics in Theatre (1 TO 4 hours)
  - THE296: Special Studies/Research in Theatre (1 TO 4 hours)
  - THE298: Independent Study in Theatre (1 TO 4 hours)
  - THE300: Theatre Practicum (1 hours)
  - THE301: Contemporary Acting Styles (4 hours)
  - THE302: Period Acting Styles (4 hours)
  - THE305: Principles of Production Management (4 hours)
  - THE306: Principles of Theatre Design (4 hours)
  - THE307: Directing for the Stage (4 hours)
  - THE308: Writing for the Stage (4 hours)
  - THE380: Internship in Theatre Arts (1 TO 4 hours)
  - THE390: Theatre Projects (1 TO 4 hours)
  - THE391: Special Studies/Topics in Theatre (1 TO 4 hours)
  - THE396: Special Studies/Research in Theatre (1 TO 4 hours)
  - THE398: Independent Study in Theatre (1 TO 4 hours)
  - THE460: Applied Theatre - Capstone Experience (2 hours)
  - THE461: Applied Theatre - Capstone Experience (2 hours)
  - THE480: Internship in Theatre Arts (1 TO 4 hours)
  - THE490: Theatre Projects (1 TO 4 hours)



Music Liberal Arts & Business Administration double major  
Four Year Plan

Year 1 (36 hours)			
Fall	Winter	Spring	Summer
CCS 100 (4 hours)		GE 1 (4 hours)	
MUS 111 (3 hours)		MUS 112 (3 hours)	
MUS 113 (1 hour)		MUS 114 (1 hour)	
ENG 170 or GE 1 ( 4 hours)		ENG 170 or GE 1 ( 4 hours)	
MAT 101 or GE 1 (4 hours)		MAT 101 or GE 1 (4 hours)	
Ensemble and Lesson (2 hours)		Ensemble and Lesson (2 hours)	
Year 2 (32 hours)			
Fall	Winter	Spring	Summer
GE 1 (4 hours)		CCD (4 hours)	Internship Experience Recommended
ACC 205 (4 hours)		ACC 206 (2 hours)	
BUS 290 (2 hours)		ECO 124 (4 hours)	
CMP 112 ( 4 hours)		CMP 114 (4 hours)	
Ensemble and Lesson (2 hours)		Ensemble and Lesson (2 hours)	
Year 3 (32 hours)			
Fall	Winter	Spring	Summer
ECO 225 (4 hours)		VPA Elective (4 hours)	Internship Experience Recommended
MUS 303 (2 hours)		Music Elective ( 4 hours)	
GE 2 (4 hours)		CCE (2 or 4 hours)	
BUS 301 ( 4 hours)		BUS 302 (4 hours)	
Ensemble and Lesson (2 hours)		Ensemble and Lesson (2 hours)	
Year 4 (28 hours)			
Fall	Winter	Spring	Summer
Music History Elective (4 hours)		BUS 496 (4 hours)	
BUS 304 (4 hours)		MUS 471 ( 1 hour)	
BUS 305 ( 4 hours)		MUS 499 (2 hours)	
CCS 400 (2 hours)		Ensemble (1 hour)	
Ensemble and Lesson (2 hours)		Music History Elective (4 hours)	

[Carroll University Catalog](#) > [Undergraduate Catalog](#) > [Academics](#) > [College of Health Sciences](#)**Academics**[Academic Organization](#)[Business, Accounting, and Economics](#)[College of Arts and Sciences](#)[College of Health Sciences](#)» [Health and Medicine](#)» [Human Movement Sciences](#)» [Nursing](#)» [Physical Therapy](#)[Enrichment Programs](#)[Department and Major Codes](#)[Accreditation Information](#)[Academic and Program Policies](#)[Calendar](#)**College of Health Sciences**Dean/Director: [Jane Hopp, Dean](#)Telephone: [262-524-7294](#)Fax: [262-574-2685](#)Room: [310 North East Avenue](#)Email: [jhopp@carrollu.edu](mailto:jhopp@carrollu.edu)**Departments**[Health and Medicine](#)[Human Movement Sciences](#)[Nursing](#)[Physical Therapy](#)

**College of Health Sciences****Health and Medicine**

» Undergraduate  
Human Movement Sciences  
Nursing  
Physical Therapy

**Department: Health and Medicine**

Chairperson: Monika Baldrige  
Room: Rankin Hall Room 304A Email: [mbaldrig@carrollu.edu](mailto:mbaldrig@carrollu.edu)  
Telephone: 262-524-7627 Fax: 262-524-7112

**Programs**

Undergraduate  
Anatomy and Physiology  
Coaching Minor  
Health and Human Experience Minor  
Health Sciences  
Health Sciences - Diagnostic Medical Sonography Emphasis  
Health Sciences - Radiologic Technology Emphasis  
Pre-Medical Laboratory Sciences  
Pre-Occupational Therapy  
Physical and Health Education  
Public Health  
Sport and Recreation Administration  
Therapeutic Recreation Emphasis

**Health and Medicine****Undergraduate**

- » Anatomy and Physiology
- » Coaching Minor
- » Health and Human Experience Minor
- » Health Sciences
- » Health Sciences - Diagnostic Medical Sonography Emphasis
- » Health Sciences - Radiologic Technology Emphasis
- » Pre-Medical Laboratory Sciences
- » Pre-Occupational Therapy
- » Physical and Health Education
- » Public Health
- » Sport and Recreation Administration
- » Therapeutic Recreation Emphasis

**Program: Undergraduate**

College of Health Sciences  
Department: Health and Medicine

- **Anatomy and Physiology**

**Monika G. Baldrige****Associate Professor****Susan M. Hanson****Distinguished Lecturer****Natalya S. Zinkevich****Senior Lecturer**

The Anatomy and Physiology courses serve several disciplines including athletic training, biology, exercise science, nursing, physical and health education, pre-physical therapy, public health, sports and recreation management, and therapeutic recreation management. The curriculum is designed to provide students an introductory and/or advanced knowledge of anatomy and physiology. The courses provide a foundation for those who wish to pursue graduate studies or professional health careers.

- Learning Outcomes

Students will:

1. Demonstrate a basic knowledge of the human body that can be applied in future coursework and clinical practice
2. Demonstrate effective communication skills
3. Apply critical thinking and problem solving skills to clinical scenarios
4. Demonstrate professional behaviors required by health professionals

- Anatomy and Physiology Courses

- ANP130: Introduction to Human Anatomy and Physiology I (4 hours)
- ANP130L: Intro to Human Anat and Phys I Lab
- ANP140: Introduction to Human Anatomy and Physiology II (4 hours)
- ANP140L: Intro to Human Anat and Phys II Lab
- ANP402: Human Anatomy (4 hours)
- ANP402L: Human Anatomy Laboratory
- ANP403: Human Physiology (4 hours)
- ANP403L: Human Physiology Laboratory

- **Coaching Minor**

The Coaching Minor is a 23 credit hour program that emphasizes five essential elements for future coaches. These key elements include:

- Human growth and developmental aspects of coaching
- Medical-legal aspects of coaching
- Social and psychological aspects of coaching
- Biomechanical aspects of coaching
- Strategies and technical aspects of coaching
- Professional preparation and practicum in coaching

- Mission and Program Goals

The mission of the coaching minor is to respond to the critical need in today's society for quality coaches. The Science of Coaching minor is designed to professionally prepare the student to become an effective coach on and off the field of play. The coursework provides students opportunities to learn and apply the principles and practices of coaching in any athletic or sport setting. The practicum allows the students to actively participate in a coaching experience under the guidance and supervision of a qualified coach.

- Program Learning Outcomes

With a strong background in the science and physiology of movement, athletic training, care and prevention of athletic injuries and psychology of coaching, students will possess the knowledge, skills and experience required for services as an athletic coach.

1. Human growth and developmental aspects of coaching

The program will emphasize practices, issues and theories in human growth and development with special attention placed on training, conditioning and nutrition.

2. Medical-legal aspects of coaching

The program will emphasize practices, issues and theories in first aid, care, prevention and recovery from athletic injuries.

3. Social/Psychological aspects of coaching

The program will emphasize practices, issues, and theories involving behavioral aspects of an athlete's relationship with society. Special attention will be focused on the societal role of coaches and the influences they have with their athletes.

4. Biomechanical aspects of coaching

The program will emphasize practices, issues, and theories involving the scientific aspects of athletic performance including anatomy, kinesiology and physiology.

5. Strategies and technical aspects of coaching

The program will emphasize practices, issues, and theories involved in the organization and strategies of sport and the techniques of coaching basic skills of sport.

6. Professional preparation and practicum of coaching

The program will emphasize practices, issues, and theories regarding professional development in the coaching area and will culminate with a semester long practical field experience in their coaching area.

◦ Student Learning Outcomes

1. Formulate a personal coaching philosophy and objectives.
2. Explain the different coaching styles.
3. Adhere to the code of ethics that guides coaches in the profession.
4. Demonstrate an understanding of the communication process involving the coach and players.
5. Plan a season practice and competition program involving an individual or team sport.
6. Demonstrate an understanding of technical and tactical skills in team sports.
7. Explain the nature of physical fitness and nutrition in relationship to enhanced performance.
8. Discuss the physiological, psychological and sociological values of sports participation.
9. Discuss the cultural aspects of sports including leisure purpose and recreation, classification of recreation, sports and education, co-recreation, sports and discrimination, and sportsmanship.
10. Discuss the risk management and legal aspects surrounding coaching.

◦ Required Courses

- ATH101: Athletic Training Seminar I (2 hours)  
AND -ATH101L: Athletic Training Seminar I Lab
- HED101: Intro to Health Care Skills (1 hours)
- PED110: Basic Weight Training Instruction (1 hours)  
AND -PED110L: Basic Weight Training Instruction Laboratory
- PED120: Fundamental Motor Development (4 hours)
- PED208: Organization and Administration of Physical Activities/Athletics (2 hours)
- PED311: Team Sports and Officiating (3 hours)  
AND -PED311L: Team Sports and Officiating Laboratory  
OR -PED312: Individual/Dual and Lifetime Activities (3 hours)  
AND -PED312L: Individual/Dual and Lifetime Activities Laboratory
- PED320: Coaching Theory (2 hours)
- PED321: Coaching Practicum (4 hours)
- PED421: Psycho-Social Aspects of Physical Activity (4 hours)

• Health and Human Experience Minor

**Mission and Program Goals**

**Mission:** The mission of the Health and Human Experience minor is to educate, in an interdisciplinary approach, pre-professional students interested in pursuing graduate study or employment in a healthcare discipline. The American Medical Society has embraced the need for practitioners that are well versed in the many "ways of knowing." This change in philosophy is due to the recognition that there is a growing need for healthcare professionals to work as an interdisciplinary team and to respond to patients more holistically through addressing their social and mental health as well as their physical health. To address this need, this minor has been designed to educate students in interdisciplinary, humanistic, and cultural approaches to the study of health in modern society.

**Goals:** To educate pre-professional students in an interdisciplinary, humanistic, and cultural approach to the study of health in modern society

**Program Learning Outcomes (Student Learning Outcomes)**

Health and the Human Experience minor students will be able to study/analyze/make decisions about health and medicine through;

- (1) Demonstrating a basic knowledge of the human body (at the molecular, biochemical, and organismal levels) that can be applied during subsequent didactic work, as well as in future clinical screening for, evaluation of, decision making regarding, and treatment of disease processes
- (2) Articulating evidence-based implications at the interpersonal and/or sociological levels.
- (3) Analyzing multiple ethical, philosophical, and religious positions for use as critical tools for making health decisions.
- (4) Exhibiting the ability to use literary and/or historical artifacts to examine issues in the health and human experience.

◦ Coursework (25 credits)

Students must take 6 courses (24 credits) plus capstone (1 credit)

\* Students must take at least one course, but no more than two courses, from each category. Students may not enroll in courses that meet requirements for their major (this includes required support courses). Students must take at least one ANP course from the Science category.

◦ Humanities

- ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class (4 hours)
- PHI207: History and Philosophy of Science (4 hours)
- ENG199: Reading and Writing in the Sciences (4 hours)

◦ Sciences

- ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab

- ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
- ANP402: Human Anatomy (4 hours)  
AND -ANP402L: Human Anatomy Laboratory
- ANP403: Human Physiology (4 hours)  
AND -ANP403L: Human Physiology Laboratory
- CHE101: General Chemistry (4 hours)  
AND -CHE101L: General Chemistry Laboratory
- CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
- CHE109: Principles of Chemistry I (4 hours)  
AND -CHE109L: Principles of Chemistry I Laboratory
- CHE110: Principles of Chemistry II (4 hours)  
AND -CHE110L: Principles of Chemistry II - Laboratory
- Social Health
  - COM200: Interpersonal Communication (4 hours)
  - COM207: Intercultural Communication (4 hours)
  - COM290: Intro to Health Communication (4 hours)
  - SOC102: Sociology of Social Problems (4 hours)
  - SOC215: Social Gerontology (4 hours)
- Values and Ethics
  - PHI106: Ethics, Values and Judgment (4 hours)
  - PHI194: Bioethics (4 hours)
  - PHI206: Ethics (4 hours)
  - REL210: Suffering and Hope (4 hours)
  - REL220: Health and Religion (4 hours)
- Capstone
  - HSC499: Health and Human Experience Capstone (1 hours)

- Health Sciences

**Lucinda Glaser    Health and Medical Sciences Articulation and  
Post Baccalaureate Programs Advisor**

The aim of the health science major is to:

- 1) facilitate professional advancement for health care providers who currently hold a technical (associate) degree in a health-related profession
- 2) provide a program of study for those Carroll University students interested in obtaining coursework leading to professional licensure in one of the imaging modalities (Radiologic Technology or Diagnostic Medical Sonography). This program is designed to lead to various 2+2 degree completion or professional programs only. **The health science major is not to be used as a stand-alone major.**

This major provides depth and breadth within the basic and behavioral sciences to prepare students for the balanced integration of critical thinking, basic science knowledge application, and interpersonal skills necessary to provide the best care in a variety of health science disciplines. To meet the educational missions of the university and of the health science major, students study in a variety of academic and professional disciplines including anatomy and physiology, psychology, chemistry, physics and computational thinking.

- Health Science Major
  - Major Core Courses (49 credits)
    - ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
    - ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
    - CHE101: General Chemistry (4 hours)  
AND -CHE101L: General Chemistry Laboratory
    - CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
    - PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
    - PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
    - PSY101: Introductory Psychology (4 hours)
    - PSY221: Life-Span Psychology (4 hours)
    - PSY260: Health Psychology (4 hours)
  - Bachelor of Science Degree Completion Emphasis

For students who have earned, or might be currently earning an Associate Degree in a health related profession such as surgical technician, radiography, etc., the Health Science major provides an avenue for professional growth and advancement. Students are awarded thirty credits by Carroll University for course work taken at either Waukesha County Technical College (WCTC) or Milwaukee Area Technical College (MATC) in conjunction with their respective degree.

The remaining required courses will vary depending on the degree program. For example, students with a surgical technician degree from MATC would be required to complete 36 of the above 48 core credits while a student with a radiography degree from WCTC would be required to complete 44 of the 48 core credits above. Students with a degree from either WCTC or MATC who wish to pursue the Health Science major would have an opportunity to take between ten and twenty-six elective credits. Additional course work focuses on preparing the individual for enhanced personal and professional development.

Specific courses that require use of disposable supplies are assigned a course fee as noted in the course description.

- Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Interdisciplinary Health Sciences Courses
  - ESC105: Group Exercise Instruction (1 hours)  
AND -ESC105L: Group Exercise Instruction Lab
  - ESC280: Exercise Physiology (4 hours)
  - ESC322: Kinesiology (4 hours)
  - HED101: Intro to Health Care Skills (1 hours)
  - HED103: Personal and Community Health (4 hours)
  - HSC300: Pharmacology (3 hours)
  - PED110: Basic Weight Training Instruction (1 hours)  
AND -PED110L: Basic Weight Training Instruction Laboratory
  - PED120: Fundamental Motor Development (4 hours)
- Courses offered by the program:
  - ESC105: Group Exercise Instruction (1 hours)
  - ESC105L: Group Exercise Instruction Lab
  - ESC280: Exercise Physiology (4 hours)
  - ESC322: Kinesiology (4 hours)
  - HSC300: Pharmacology (3 hours)
  - HSC499: Health and Human Experience Capstone (1 hours)
  - HED101: Intro to Health Care Skills (1 hours)
  - HED103: Personal and Community Health (4 hours)
  - PED110: Basic Weight Training Instruction (1 hours)
  - PED110L: Basic Weight Training Instruction Laboratory
  - PED120: Fundamental Motor Development (4 hours)

- Health Sciences - Diagnostic Medical Sonography Emphasis

**Lucinda Glaser** Health and Medical Sciences Articulation and Post Baccalaureate Programs Advisor  
Carroll University

**Laura Sorenson** Education Coordinator, School of Diagnostic Medical Sonography, Aurora Health Care

**Michelle Cordio** Program Director, School of Diagnostic Medical Sonography, University of Wisconsin Hospital and Clinics

Carroll University offers an opportunity to earn a Bachelor of Science degree in Health Sciences with an emphasis in Diagnostic Medical Sonography (DMS) through unique partnerships with Aurora Health Care in Milwaukee and the University of Wisconsin Hospital and Clinics (UWHC) in Madison. This B.S. degree affords students additional career choices over earning the certificate alone. Students receive the benefits of close, personal attention during the first two years at Carroll followed by two years of clinical experiences in each hospital partner's School of Diagnostic Medical Sonography and associated clinical sites. Once admitted to the hospital phase of the program, students complete coursework in a specialized track (General and Vascular or Cardiac and Vascular) and rotate through diverse clinical placements in a small cohort of classmates.

Diagnostic medical sonographers enjoy employment in varied settings, including hospitals, medical and diagnostic laboratories, diagnostic imaging centers and outpatient care centers. Additional opportunities are available in education, management and medical equipment sales related to sonography. Long-term employment prospects in this area are forecast to be excellent.

Entry into the Aurora Health Care or the University of Wisconsin Hospital and Clinics professional phase is highly competitive and dependent upon completion of Carroll University general education and hospital program requirements, a **minimum** GPA of 3.0 with a grade of 'C' or better in pre-requisite and specific science coursework, current CNA and American Heart Association CPR certification (at the student's own expense) and the accumulation of 100 hours minimum direct patient care prior to application. Acceptance of students into the professional phase of the program is determined solely by the admissions committee at each hospital's independent School of Diagnostic Medical Sonography. This program requires students to attend class year-round. See the Admissions section of the catalog or contact the Health and Medical Sciences Advisor for more details.

- Required Carroll University Courses
  - ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
  - ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
  - CCS100: Cultural Seminar (4 hours)
  - CCS300: Cross Cultural Experience (2 hours)
  - CCS400: Global Perspectives Colloquium (2 hours)
  - CHE101: General Chemistry (4 hours)  
AND -CHE101L: General Chemistry Laboratory
  - CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - COM207: Intercultural Communication (4 hours)
  - ENG170: Writing Seminar (4 hours)
  - NRS100: Health Care and Nursing (4 hours)  
AND -NRS100L: Health Care and Nursing Laboratory
  - NRS230: Health Assessment (4 hours)  
AND -NRS230L: Health Assessment Laboratory

- NRS236: Human Pathophysiologic Responses (4 hours)
- PHI194: Bioethics (4 hours)
- PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
- PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
- PSY101: Introductory Psychology (4 hours)
- PSY221: Life-Span Psychology (4 hours)
- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Sample Sonography Program at Carroll University
- Sample Sonography Program at Partner Hospital (General and Vascular Track)

- Health Sciences - Radiologic Technology Emphasis

<b>Cindy Bradley</b>	<b>Program Supervisor</b>
<b>Lucinda Glaser</b>	<b>Aurora Health Care School of Radiologic Technology Health and Medical Sciences Articulation and Post Baccalaureate Programs Advisor</b>
<b>Kyle Thine</b>	<b>Program Director</b>
<b>Diane Wingenter</b>	<b>Froedtert School of Radiologic Technology</b>
	<b>Wheaton Franciscan Healthcare School of Radiologic Technology</b>

Carroll University offers an opportunity to earn a Bachelor of Science degree in Health Sciences with an emphasis in Radiologic Technology through unique partnerships with Aurora Health Care, Froedtert Hospital and Wheaton Franciscan Healthcare. This B.S. degree affords students additional career choices over earning the certificate alone. Students receive the benefits of close, personal attention during the first two years at Carroll followed by two years of clinical experiences in each hospital partner's School of Radiologic Technology and associated clinical sites.

Radiologic technologists enjoy employment in varied settings, including hospitals, medical and diagnostic laboratories, diagnostic imaging centers and outpatient care centers. Additional opportunities are available in education, management and medical equipment sales related to radiology. Long-term employment prospects in this area are forecast to be favorable.

Entry into the professional phase is highly competitive and dependent upon completion of Carroll University general education and hospital program requirements, a **minimum** GPA of 2.5 with a grade of 'C' or better in pre-requisite and specific science coursework and documented patient care experience. Additional points may be awarded to candidates with a CNA certificate (at the student's own expense). Some programs also require American Heart Association CPR certification and a college level 2-credit Medical Terminology course prior to application (at the student's own expense). Taking a Medical Terminology class prior to application will remove the requirement for HSC353 during the hospital portion of the program. Acceptance into the professional phase of the program is determined solely by the admissions committee at each hospital partners' independent School of Radiologic Technology. The program requires students to attend class year-round. See the Admissions section of the catalog or contact the Health and Medical Sciences Advisor for more details.

- Required Carroll University Courses
  - ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
  - ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
  - CCS100: Cultural Seminar (4 hours)
  - CCS300: Cross Cultural Experience (2 hours)
  - CCS400: Global Perspectives Colloquium (2 hours)
  - CHE101: General Chemistry (4 hours)  
AND -CHE101L: General Chemistry Laboratory
  - CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - COM207: Intercultural Communication (4 hours)
  - ENG170: Writing Seminar (4 hours)
  - PHI194: Bioethics (4 hours)
  - PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
  - PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
  - PSY101: Introductory Psychology (4 hours)
  - PSY221: Life-Span Psychology (4 hours)
  - PSY260: Health Psychology (4 hours)



- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- [Sample Radiologic Technology Program](#)

- **Pre-Medical Laboratory Sciences**

**Cindy Brown**      **Clinical Associate Professor and Education Coordinator**  
**University of Wisconsin - Milwaukee**

**Bill Mueller**      **Academic Advisor**  
**Office of Student Affairs**  
**University of Wisconsin - Milwaukee**

**Lucinda Glaser**      **Health and Medical Sciences Articulation and Post Baccalaureate Programs Advisor**

Carroll University offers an opportunity to major in Medical Laboratory Sciences (formerly Clinical Laboratory Sciences) through a partnership with the University of Wisconsin-Milwaukee (UWM). The partnership allows students the benefits of close, personal attention during the first two and one-half years at Carroll while still providing access to the advanced clinical training facilities at UWM in the final stages of the program.

Medical Laboratory Science students can select one of several emphases at UWM:

- Medical Technology
- Cytotechnology
- Public Health Microbiology

These emphases provide a range of career opportunities in settings including hospitals, independent laboratories, public health facilities, industries, research laboratories, or sales and marketing centers. Long-term employment prospects in these areas are forecasted to be excellent.

Entry into the professional training phase of the program is competitive and dependent upon completion of general education requirements, a minimum GPA of 2.50 (overall and in required science courses), a grade of 'C' or better in courses transferring from Carroll and in all junior-level courses, and completion of all required and elective courses (90 credits) by second semester of the junior year.

- **Medical Laboratory Sciences Major**
  - Science and mathematics courses taken at Carroll University
    - **ANP130: Introduction to Human Anatomy and Physiology I (4 hours)**  
AND -ANP130L: Intro to Human Anat and Phys I Lab
    - **ANP140: Introduction to Human Anatomy and Physiology II (4 hours)**  
AND -ANP140L: Intro to Human Anat and Phys II Lab
    - **BIO212: Microbiology for the Health Sciences (4 hours)**  
AND -BIO212L: Microbiology for the Health Sciences Laboratory
    - **BIO220: Genetics (4 hours)**  
AND -BIO220L: Genetics Laboratory
    - **BIO271: Clinical Immunology (4 hours)**  
AND -BIO271L: Clinical Immunology Laboratory
    - **CHE109: Principles of Chemistry I (4 hours)**  
AND -CHE109L: Principles of Chemistry I Laboratory
    - **CHE110: Principles of Chemistry II (4 hours)**  
AND -CHE110L: Principles of Chemistry II - Laboratory
    - **CHE201: Analytical Chemistry (4 hours)**  
AND -CHE201L: Analytical Chemistry Laboratory
    - **CHE203: Organic Chemistry I (4 hours)**  
AND -CHE203L: Organic Chemistry I Laboratory
    - **CHE204: Organic Chemistry II (4 hours)**  
AND -CHE204L: Organic Chemistry II Laboratory
    - **CHE308: Biochemistry I (4 hours)**  
AND -CHE308L: Biochemistry I Laboratory
    - **NRS236: Human Pathophysiologic Responses (4 hours)**
    - **CMP112: Computational Thinking I (4 hours)**
    - **CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)**
  - Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- **CMP112** and either **CMP113** or **CMP114** or
- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- [The Pioneer Core Program](#)

- Cross-Cultural Component
- Distribution Component
- GE1 and GE2 Courses
- Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Other Carroll University courses required in this transfer program
  - CCS100: Cultural Seminar (4 hours)
  - ENG170: Writing Seminar (4 hours)

GE 1 (F,H,S)

GE 2 (F,H,S or P)

One social science elective must satisfy UWM's Diversity requirement prior to graduation. ENG 164, American Indian Literature and Cultures will satisfy this diversity requirement as well as a GE 1 (P1, CCD).

Students must also demonstrate completion of UWM's language requirement by achieving one of the following:

- complete with passing grades (prior to entering university) at least two years of high school level instruction in a single foreign language, or
- complete with passing grades at least two semesters (minimum of 6 credits) of university level instruction in a single foreign language, or
- demonstrate foreign language ability at least equivalent to the above by means of a satisfactory score on an approved placement, proficiency, program or other appropriate examination.

Because of the specialized requirements of this program, students should work closely with the MLS Advisor.

It is also important to be in contact with the University of Wisconsin-Milwaukee advisor early in the junior year. There is a mandatory meeting for all MLS students each fall at UW-M.

- [Sample Medical Laboratory Program at Carroll University](#)
- [Sample Program for Medical Lab Sciences at UWM](#)

- **Pre-Occupational Therapy**

**Lani R. Stockwell**

**Program Director**

**Master of Occupational Therapy Program**

Carroll University offers an opportunity to pursue an emphasis in Pre-Occupational Therapy for those students wishing to pursue future graduate education in Occupational Therapy. Occupational Therapy is a health care profession that focuses on helping people of all ages regain, develop, or master everyday skills in order to live independent, productive, and satisfying lives. Students interested in pursuing Occupational Therapy as a career must complete an undergraduate degree (with required prerequisites), graduate from an entry level Occupational Therapy education program (Master's or Doctoral level) accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) and sit for the National Occupational Therapy Certification Examination.

Students are prepared for graduate Occupational Therapy education through the completion of an undergraduate degree and the specific required prerequisite courses of the Occupational Therapy educational program. Suggested undergraduate majors may include Psychology, Communications, Spanish, Biology, Public Health, or Exercise Science. Students may also choose undergraduate studies in other Humanities and Social Science programs based on student interests.

- Admission/Progression Requirements

Acceptance into a graduate Occupational Therapy education program is competitive and dependent upon multiple requirements. If you are interested in applying to an Occupational Therapy program, you must obtain specific requirements, prerequisites, and program content from the schools to which you are applying. Most programs also require volunteer or paid work experience with persons with disabilities, satisfactory performance on the Graduate Record Examination (GRE), letters of recommendation, Caregiver Background Check and a minimum undergraduate and professional grade point of 3.0 on a 4.0 scale. Many schools minimum GPA exceeds the 3.0 minimum. Courses required in Carroll Pre Occupational Therapy emphasis include:

- ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
- ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
- PSY101: Introductory Psychology (4 hours)
- PSY201: Abnormal Psychology (4 hours)
- PSY221: Life-Span Psychology (4 hours)
- SOC101: Introduction to Sociology (4 hours)  
OR -SOC110: Cultural Anthropology (4 hours)
- CMP112: Computational Thinking I (4 hours)
- CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)

Completion of the above Pre Occupational Therapy emphasis does not ensure future admittance to an Occupational Therapy program. Some educational programs may require additional prerequisite courses. Students are encouraged to identify the Occupational Therapy education program they intend to apply to by the completion of their senior year.

- Bachelor of Science Requirement

**Bachelor of Science Requirement**

The requirements for a Bachelor of Science degree are:

- [CMP112](#) and either [CMP113](#) or [CMP114](#) or

- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Physical and Health Education

**Stephen J. Dannhoff**      **Director and Assistant Clinical Professor**  
**Pamela Pinahs-Schultz**      **Professor**

The physical education with health major and adapted physical education licensure are designed for students who wish to acquire the diverse competencies needed to teach physical education, health education, and adapted physical education at the Pre-K-12 level. This program provides students with competencies necessary to meet Wisconsin Department of Public Instruction (DPI) requirements.

- Physical and Health Education (K-12) Major

Descriptions of Health Science courses in the Physical and Health Education major and the major's academic progression standards are in the Health Sciences section of this Catalog. Descriptions of Education Program courses in the Physical and Health Education program are in the Education Program section of this Catalog.

All physical education majors must be proficient to the intermediate level in swimming; a Water Safety Instructor and/or Lifeguarding certificate is strongly recommended.

#### Learning Outcomes for Physical Education

Upon graduation and entry into the profession of Physical and Health Education, the individual will:

1. Articulate basic physical education knowledge, central physical education concepts, and pedagogical practices within the field of physical education. Articulate basic health knowledge, central health concepts, health tools of inquiry, and pedagogical practices within the field of health education.
2. Develop a professional philosophy consistent with current National Association for Sport and Physical Education (NASPE) and state physical education standards, developmentally appropriate curriculum and instructional design, assessment, and professional development. Develop a professional philosophy consistent with current research findings and best practices in health education, curriculum and instructional design, assessment and professional development.
3. Identify the role, function, and responsibility of a physical education teacher and physical education program coordinator as part of the K-12 physical education program. Identify the role, function, and responsibility of a health education teacher and health education program coordinator as part of the comprehensive school health program.
4. Assess informally student physical education and health education needs based on a student's prior physical education experiences, physical fitness level, interests and needs in order to implement quality physical education instruction. Assess informally student health needs based on a student's prior knowledge, interests and needs in order to implement quality health instruction.
5. Identify and articulate the concepts and skills contained in the current state and NASPE physical education standards in the development of curriculum and instruction. Identify and articulate current state and national health standards and the development of curriculum and instruction. Identify and articulate the concepts and skills contained in the current state and national health standards in the development of curriculum and instruction.
6. Design and deliver developmentally appropriate instructional programs based on stated goals and objectives contained in the current state and NASPE standards. Design and deliver developmentally appropriate instructional programs based on stated goals and objectives contained in the current state and national health standards, assessment data, utilizing the CDC guidelines for effective school health programs as the major health content organizer.
7. Analyze and articulate the social, cultural, economic and political factors that affect physical education engagement, home-school relations, and classroom strategies in physical and health education.
8. Evaluate commercial physical education programs as well as state, national, and international resources utilizing research-based principles in physical education curriculum, instruction and assessment. Critically evaluate developmentally appropriate commercial health education programs as well as state, national, and international resources utilizing research-based and best practices principles in health education curriculum, instruction, and assessment.
9. Implement effective developmentally appropriate instructional approaches including the use of media and technology, multiple intelligences, differentiated instruction and brain based learning that will create learning experiences that will meet the diverse needs of pupils, the community and curricular goals.
10. Apply formal and informal assessment strategies to evaluate and ensure continuous intellectual, social, and physical development of the pupil.
11. Reflect and evaluate the impact of his or her instructional capacity on others (e.g. learners, parents/guardians, and other professionals) as well as his/her class room management skills and seek opportunities to grow professionally (i.e. Wisconsin Family and Consumer Educators, and Wisconsin Association for Health, Physical Education, Recreation, and Dance).

#### Fees

Specific courses that require use of equipment and disposable supplies are assigned a course fee.

#### Academic Progression Standards

The academic progression standards for the physical and health education major are presented in the Academic Policies and Procedures section of this catalog.

- o Courses in the Physical and Health Education Major (67 credits)
  - o ATH101: Athletic Training Seminar I (2 hours)  
AND -ATH101L: Athletic Training Seminar I Lab
  - o ESC105: Group Exercise Instruction (1 hour)
  - o ESC280: Exercise Physiology (4 hours)
  - o ESC322: Kinesiology (4 hours)
  - o HED101: Intro to Health Care Skills (1 hour)
  - o HED201: Nutrition (2 hours)
  - o HED202: Drugs, Society and Human Behavior (2 hours)
  - o HED203: Consumerism in Health (2 hours)
  - o HED204: Human Sexuality (2 hours)
  - o HED205: Community Health (2 hours)
  - o HED323: School Health Programs (4 hours)
  - o HED353: Special Methods in Teaching Health Education (4 hours)
  - o PED102: Basic and Intermediate Swim (2 hours)
  - o PED103: Philosophy, Principles & History of Physical Education/Athletics (3 hours)
  - o PED110: Basic Weight Training Instruction (1 hour)  
AND -PED110L: Basic Weight Training Instruction Laboratory
  - o PED120: Fundamental Motor Development (4 hours)
  - o PED208: Organization and Administration of Physical Activities/Athletics (2 hours)
  - o PED214: Teaching Outdoor Activities in Physical Education (2 hours)
  - o PED310: Elementary Physical Education Activities (3 hours)
  - o PED311: Team Sports and Officiating (3 hours)  
AND -PED311L: Team Sports and Officiating Laboratory
  - o PED312: Individual/Dual and Lifetime Activities (3 hours)  
AND -PED312L: Individual/Dual and Lifetime Activities Laboratory
  - o PED353: Capstone: Special Methods in Teaching Physical Education (4 hours)
  - o PED411: Adapted Physical Education (4 hours)
  - o PED421: Psycho-Social Aspects of Physical Activity (4 hours)
- o Courses toward the Adapted Physical Education License
  - o EDU264: Collaboration for Academic, Social and Career Development (4 hours)
  - o EDU336: Collaborating with Families of Students with Disabilities (3 hours)
  - o PED120: Fundamental Motor Development (4 hours)
  - o PED411: Adapted Physical Education (4 hours)
  - o PED412: Assessment/Program Evaluation in Adapted Physical Education (2 hours)
  - o PED414: Field Experience in Adapted P.E. (1 hour)

**\*Refer to the Education Program-Secondary Education Minor for additional course requirements necessary for Wisconsin Department of Public Instruction licensure.**

- o Required Support Courses (14 credits)
  - o ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
  - o ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
  - o CMP112: Computational Thinking I (4 hours)
  - o CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
- o Coaching Emphasis
  - o ATH101: Athletic Training Seminar I (2 hours)  
AND -ATH101L: Athletic Training Seminar I Lab
  - o HED101: Intro to Health Care Skills (1 hour)
  - o PED110: Basic Weight Training Instruction (1 hour)  
AND -PED110L: Basic Weight Training Instruction Laboratory
  - o PED120: Fundamental Motor Development (4 hours)
  - o PED208: Organization and Administration of Physical Activities/Athletics (2 hours)
  - o PED311: Team Sports and Officiating (3 hours)  
AND -PED311L: Team Sports and Officiating Laboratory  
OR -PED312: Individual/Dual and Lifetime Activities (3 hours)  
AND -PED312L: Individual/Dual and Lifetime Activities Laboratory
  - o PED320: Coaching Theory (2 hours)
  - o PED321: Coaching Practicum (4 hours)
  - o PED421: Psycho-Social Aspects of Physical Activity (4 hours)
- o Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- o CMP112 and either CMP113 or CMP114 or
- o MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- o The Pioneer Core Program
  - o Cross-Cultural Component
  - o Distribution Component
  - o GE1 and GE2 Courses
  - o Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- o Physical Education/Health Education/Adapted Physical Education Four- One-Half-Year Curriculum Model
- o Courses offered by the program:
  - o HED201: Nutrition (2 hours)
  - o HED202: Drugs, Society and Human Behavior (2 hours)

- HED203: Consumerism in Health (2 hours)
- HED204: Human Sexuality (2 hours)
- HED323: School Health Programs (4 hours)
- HED353: Special Methods in Teaching Health Education (4 hours)
- PED102: Basic and Intermediate Swim (2 hours)
- PED103: Philosophy, Principles & History of Physical Education/Athletics (3 hours)
- PED208: Organization and Administration of Physical Activities/Athletics (2 hours)
- PED214: Teaching Outdoor Activities in Physical Education (2 hours)
- PED310: Elementary Physical Education Activities (3 hours)
- PED311: Team Sports and Officiating (3 hours)
- PED311L: Team Sports and Officiating Laboratory
- PED312: Individual/Dual and Lifetime Activities (3 hours)
- PED312L: Individual/Dual and Lifetime Activities Laboratory
- PED320: Coaching Theory (2 hours)
- PED328: Elem Phy Ed Activities and Health Education (3 hours)
- PED353: Capstone: Special Methods in Teaching Physical Education (4 hours)
- PED391: Special Problems and Research (4 hours)
- PED398: Special Studies in Physical Educ (1 TO 3 hours)
- PED411: Adapted Physical Education (4 hours)
- PED412: Assessment/Program Evaluation in Adapted Physical Education (2 hours)
- PED414: Field Experience in Adapted P.E. (1 hours)
- PED421: Psycho-Social Aspects of Physical Activity (4 hours)

- **Public Health**

**Pamela Pinahs-Schultz**  
**Barbra J. Beck**

**Professor**  
**Associate Professor**

The mission of public health is to fulfill society's interest in assuring conditions in which people can be healthy. Public health carries out its mission through organized, interdisciplinary efforts that address the physical, mental, and environmental health concerns of communities and populations at risk for disease and injury. Its mission is achieved through the application of health promotion and disease prevention technologies and interventions designed to improve and enhance quality of life. The core areas of public health include health services administration, biostatistics, epidemiology, behavioral sciences/health education and environmental health sciences.

Students in the Public Health major will also become eligible to sit for the Certified Health Education Specialist exam offered by the National Commission for Health Education Credentialing (NCHEC). NCHEC's voluntary professional certification program establishes a national standard for individual health education practitioners. Health educators are professionals who design, conduct and evaluate activities that help improve the health of all people. These activities can take place in a variety of settings that include schools, communities, health care facilities, businesses, colleges and government agencies. Certified Health Education Specialists (CHES) are those who have met the standards of competence established by NCHEC and have successfully passed the CHES examination. The CHES designation after a health educator's name is an indication of professional competency and commitment to continued professional development.

#### **Learning Outcomes for the Public Health Program**

Graduates of the Public Health Program:

1. Are able to use existing sources of health data, name the major causes of morbidity and mortality in the United States based on age and gender, and the important modifiable risk factors for each.
2. Can identify recommended clinical preventive services based on patient's age, sex, and risk factor status using appropriate guidelines.
3. Demonstrate the communication and psychomotor skills required to provide appropriate, recommended preventive services.
4. Understand features of health systems that promote the integration and utilization of disease prevention-health promotion services.
5. Describe the clinical, ethical, and legal issues associated with case finding and screening programs.
6. Identify the roles of various health care providers, interdisciplinary health care teams, consultation/referral sources, and community resources in providing clinical preventive services and complementary clinical care
7. Understand the transmission of disease in clinical settings and demonstrate knowledge and skills necessary to take universal precautions.

These learning outcomes are delivered through a focused curriculum in disease prevention, quantitative skills, health service organization and delivery, and community dimensions of practice.

#### **Suggested Minors**

1. Health Education
2. Health Care Administration

#### **Admission and Progression Standards**

Students will be subject to Carroll University admission and progression standards.

#### **Caregiver Background and Criminal History Check**

The student must complete a Background Information Disclosure Form prior to community placements. Certain convictions may prevent or significantly limit the ability of the university to place a student in the field experience and internship courses resulting in the student being unable to meet the university's graduation requirements.

- **Public Health Major**

- Core Courses (34-40 credits)
  - PBH101: Introduction to Public Health (4 hours)
  - PBH102: Global Health (4 hours)
  - PBH210: Public Health for Communities (4 hours)
  - PBH211: Public Health Field Experience (2 hours)
  - PBH302: Environmental and Occupational Health (2 hours)
  - PBH303: Occupational Health and Safety (2 hours)
  - PBH312: Public Health Policy and Administration (4 hours)
  - PBH320: Principles of Health Behavior (4 hours)
  - PBH324: Program Development, Assessment, and Evaluation in Public Health (4 hours)
  - PBH421: Epidemiology (4 hours)
  - PBH480: Public Health Internship (6-12 hours)
- Required Supporting Courses
  - COM290: Intro to Health Communication (4 hours)
  - GRC106: Intro-Communication Technology (2 hours)
  - HED101: Intro to Health Care Skills (1 hours)
  - OR -: Equivalent CPR
- Pre-Physical Therapy 4 year plan

[Click here](#) for a Pre-Physical Therapy four year plan.

- Courses required to complete a 4 year Pre-Physical Therapy Program
  - ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
  - ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
  - ANP402: Human Anatomy (4 hours)  
AND -ANP402L: Human Anatomy Laboratory
  - ANP403: Human Physiology (4 hours)  
AND -ANP403L: Human Physiology Laboratory
  - CHE101: General Chemistry (4 hours)  
AND -CHE101L: General Chemistry Laboratory
  - CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
  - PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
  - PSY101: Introductory Psychology (4 hours)

- Bachelor of Science Requirement

#### Bachelor of Science Requirement

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- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Public Health Minor
  - Core Courses

The Public Health minor will utilize core public health courses while potentially fulfilling some General Education requirements. This minor helps the undergraduate gain an understanding of important local, national, and global public health issues giving additional diversity to their current course of study.

- PBH101: Introduction to Public Health (4 hours)
- PBH102: Global Health (4 hours)
- PBH210: Public Health for Communities (4 hours)
- PBH324: Program Development, Assessment, and Evaluation in Public Health (4 hours)
- PBH421: Epidemiology (4 hours)
- Courses offered by the program:
  - PBH101: Introduction to Public Health (4 hours)
  - PBH102: Global Health (4 hours)
  - PBH210: Public Health for Communities (4 hours)
  - PBH211: Public Health Field Experience (2 hours)
  - PBH302: Environmental and Occupational Health (2 hours)
  - PBH303: Occupational Health and Safety (2 hours)
  - PBH312: Public Health Policy and Administration (4 hours)
  - PBH320: Principles of Health Behavior (4 hours)
  - PBH324: Program Development, Assessment, and Evaluation in Public Health (4 hours)
  - PBH421: Epidemiology (4 hours)
  - PBH480: Public Health Internship (6-12 hours)

- Sport and Recreation Administration

**Stephen Dannhoff**

**Director and Assistant Clinical Professor**

The curriculum in sports administration is designed to prepare students for careers of leadership in the field of sports administration. During the course of study, sports administration students gain expertise for multi-faceted sports careers in the fields of facilities management, information technology, front office administration and community recreation. The program provides students the opportunity to garner knowledge and develop skills through coursework and mentorship experience within the sport industry.

### **Sport and Recreation Administration Major Bachelor of Science**

The Carroll University Sport and Recreation Administration Major will provide students with a knowledge, understanding, and appreciation of the sport industry that will provide career advancement opportunities. The tools and resources provided to the students will occur in a positive learning environment combining both theory and practice. In pursuit of our mission we will: Prepare students to critically analyze issues and problems related to the sport administration field, Ensure students are proficient in the outcome areas of personal and professional decision making, ethical and legal practices, practical and theoretical competence, and professional development, and require students to acquire significant contact hours in practical and internship settings to enhance authentic learning.

#### **Program Level Student Learning Outcomes**

- 1) Display an understanding of the managerial considerations involved in sport management practice within a variety of professional settings
- 2) Display an understanding of how marketing principles may be effectively applied in a variety of sport management settings, particularly as they pertain to ticket and sponsorship sales and customer service
- 3) Display an understanding of how public relations tactics such as news releases and community relations may be effectively employed in a variety of sport management settings,
- 4) Display an understanding of the financial dimensions of sport management practice, including resource acquisition and budget considerations,
- 5) Display an understanding of the economic dimensions of sport management practice, particularly as it relates to public finance of sport and economic impact evaluations,
- 6) Display an understanding of the ethical dimensions of sport management practice and be able to make ethical decisions based on sound professional judgment,
- 7) Display an understanding of the legal dimensions of sport management practice and be able to apply legal theory such as contract law and tort law in various sport management settings,
- 8) Display an understanding of the key considerations involved in successful sport event and sport facility management,
- 9) Display sound critical thinking skills that can be employed in sport management settings,
- 10) Display effective oral, written and interpersonal communication skills as required for successful sport management practice,
- 11) Display proficiency in employing technologies commonly utilized by sport managers,
- 12) Display proficiency in applying sport management knowledge and related skills in an in-depth experiential learning assignment (i.e., internship).

#### **Student Learning Goals**

- 1) Secure an understanding of how relevant managerial, marketing, public relations, economic, and financial theory are applicable to the various facets of sport management practice
- 2) Develop an understanding of and an appreciation for the psycho-social dimensions of sport and sport management practice
- 3) Gain an understanding of the ethical and legal dimensions of successful sport management practice
- 4) Develop critical thinking skills, particularly as they are relevant to successful sport management practice
- 5) Advance oral, written and interpersonal communication skills as necessary for successful sport management practice
- 6) Develop skills pertaining to the use of technology in sport management
- 7) Acquire relevant professional experience in which knowledge secured in sport management classes is successfully applied in a sport management setting

#### **Internship Requirements**

1. A minimum grade point average of 2.0 at the time of application for the internship.
2. A minimum of 480 hours of actual work-related experience, preferably for an entire semester.
3. The intern works under the guidance of experienced individuals/supervisors in the area of interest that has been pre-approved by the Director of Internships.
4. Periodic and final written reports about the work experiences, by both the intern and his/her supervisors, are submitted to the Director of Internships.

#### **Fees**

Specific courses that require use of equipment and disposable supplies are assigned a course fee.

- Core courses (35)



- ACC205: Financial Accounting (4 hours)
- BUS301: Principles of Marketing (4 hours)
- BUS302: Principles of Management (4 hours)
- PED103: Philosophy, Principles & History of Physical Education/Athletics (3 hours)
- PED208: Organization and Administration of Physical Activities/Athletics (2 hours)
- PED421: Psycho-Social Aspects of Physical Activity (4 hours)
- SRM315: Sport Management Practicum I (1 hours)
- SRM405: Recreational Programming (4 hours)
- SRM407: Facility Operation (2 hours)
- SRM409: Sports Promotion and Event Planning (2 hours)
- SRM410: Recreation Administration and Supervision (4 hours)
- SRM435: Sport Management Practicum II (1 hours)
- Capstone Course (12 Credits)
  - SRM480: Capstone: Internship in Sport Management (12 hours)
- Minors Available
  - Marketing Minor (20 Credits)
    - BUS101: Introduction to Business (4 hours)
    - BUS301: Principles of Marketing (4 hours)
    - Additional courses needed to complete this minor:
 

Choose 12 or more credit hours from the following:

      - BUS320: Promotion Management (4 hours)
      - BUS327: Business to Business Marketing (4 hours)
      - BUS435: Marketing Research (4 hours)
  - Management and Leadership Minor (20 Credits)
    - BUS101: Introduction to Business (4 hours)
    - BUS302: Principles of Management (4 hours)
    - Additional courses needed to complete this minor:
 

Choose 12 or more credit hours from the following:

      - BUS265: Human Resource Management (4 hours)
      - BUS479: Consulting Management (4 hours)
      - LEA190: Leadership and Personal Effectiveness (4 hours)
      - LEA302: Leadership Theory and Practice (4 hours)
      - LEA499: Leading Change (4 hours)

**Other minors that would complement the Sports and Recreation Administration major are:**

Communications Minor  
 Graphic Design Minor  
 Web Design Minor  
 History Minor  
 Professional Writing Minor  
 Sports Nutrition Minor  
 Therapeutic Recreation Minor

- Bachelor of Science Requirement

**Bachelor of Science Requirement**

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- **MAT140** or higher and **CSC110** or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Sport and Recreation Administration 4 Year Plan
- Courses offered by the program:
  - SRM315: Sport Management Practicum I (1 hours)
  - SRM405: Recreational Programming (4 hours)
  - SRM407: Facility Operation (2 hours)
  - SRM409: Sports Promotion and Event Planning (2 hours)
  - SRM410: Recreation Administration and Supervision (4 hours)
  - SRM435: Sport Management Practicum II (1 hours)
  - SRM480: Capstone: Internship in Sport Management (12 hours)

- Therapeutic Recreation Emphasis

**Lucinda  
Glaser**

**Health and Medical Sciences Articulation and Post Baccalaureate Programs  
Advisor  
Carroll University**

**Patty Thomas Clinical Assistant Professor  
Therapeutic Recreation Certificate Coordinator  
University of Wisconsin - Milwaukee**



Carroll University offers an opportunity to receive an emphasis in Therapeutic Recreation in collaboration with the University of Wisconsin-Milwaukee via online course work. Students majoring in Recreation Management, Psychology, Public Health, or Exercise Science are thought to be the primary users of this certification route; however other students may opt to use this course sequence. Courses done in collaboration with the University of Wisconsin-Milwaukee are in an online format which requires regular coursework with assignments due every week throughout a typical academic semester. Please note that Carroll University and the University of Wisconsin-Milwaukee start and stop dates for any given semester will not be identical. Due to the need to be admitted and registered as a student at UWM, it is important for the student to plan ahead. A lead time of at least 4 weeks prior to the start of the class through UWM is necessary. Contact Lucinda Glaser in order to register for the Therapeutic Recreation courses.

Therapeutic Recreation, also known as recreation therapy, is a unique profession that utilizes recreation and activity based interventions to help improve an individual's physical, emotional, cognitive, social, spiritual and leisure functioning for optimal participation in life. The Therapeutic Recreation Specialist, also known as a Recreation Therapist, assists clients to develop skills, knowledge and behaviors for daily living and community involvement. The therapist works with the client and his/her family to incorporate specific leisure interests and community resources into therapy to achieve optimal outcomes that transfer to his/her real life situation.

This emphasis is designed for a broad audience of individuals who work with people with disabilities. The program focuses on the development of knowledge and acquisition of skills and abilities in the areas of Health and Therapeutic Recreation. In preparation for the nationally recognized certification examination, coursework covers topic areas included in the National Council for Therapeutic Recreation Certification Job Analysis categories. Courses present the concepts of health, wellness, disease and illness in relation to quality of life for individuals with disabilities. Specific skill development in the areas of assessment and facilitation techniques is also taught and complemented with an ongoing focus on emerging issues in the field of therapeutic recreation.

Completion of this emphasis allows the individual to meet one portion of the academic coursework required for the credential as a Certified Therapeutic Recreation Specialist (CTRS) with the National Council for Therapeutic Recreation Certification. Additional requirements are needed to fully qualify for the credential. The individual must take responsibility to meet the additional requirements to be eligible to sit for the CTRS certification exam. The additional requirements include supportive coursework, a minimum of a bachelor's degree, and one year of direct care experience under the direction of a Certified Therapeutic Recreation Specialist (a 14 week internship option may exist for students studying Sport and Recreation Administration). Completion of these requirements will meet Equivalency Path B of the National Council for Therapeutic Recreation Certification requirements for exam eligibility. Please refer to the National Council for Therapeutic Recreation Certification Standards for additional information. Students are responsible for the procurement of their internship site however a faculty advisor may offer some assistance.

#### **Emphasis Certification Coursework**

18 credits of supported courses are required in Therapeutic Recreation or Sport and Recreation Administration. Twelve of those 18 credits must be Therapeutic Recreation specific. REC 203, 300, 308, 310, 400 are offered online only, in collaboration with UW-Milwaukee. Sport and Recreation Administration (SRM) 405 and 410 are currently offered on the Carroll University campus and are required in the Sport and Recreation Administration major. Specific course descriptions are located in the Sport and Recreation Administration section of the catalog.

- Emphasis Certification Coursework

18 credits of supported courses are required in Therapeutic Recreation. 12 of those 18 credits must be Therapeutic Recreation specific. All courses with an asterisk are offered online only, in collaboration with UW-Milwaukee. Sport and Recreation Administration 405 and 410 are currently offered on campus and required in the Sport and Recreation Administration major. Specific course descriptions are located in the Sport and Recreation Administration section of the catalog.

- UW-M Online courses:
  - REC203: Therapeutic Recreation Process\* (3 hours)
  - REC300: Therapeutic Recreation Assessment and Documentation\* (4 hours)
  - REC308: Therapeutic Recreation in Physical Rehabilitation and Behavioral Health\* (4 hours)
  - REC310: Facilitation Techniques in Therapeutic Recreation\* (4 hours)
  - REC400: Issues and Trends in Therapeutic Recreation\* (3 hours)

Must earn a grade of "B" or higher in all Therapeutic Recreation courses to sit for certification examination.

- Carroll University courses:
  - REC405: Recreational Programming (4 hours)
  - REC410: Recreation Administration and Supervision (4 hours)
- Required Emphasis Support Courses

*(Required supportive coursework for the 'Certified Therapeutic Recreation Specialist' CTRS Exam)*

- ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
- ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
- PED120: Fundamental Motor Development (4 hours)
- PSY101: Introductory Psychology (4 hours)
- PSY201: Abnormal Psychology (4 hours)
- Bachelor of Science Requirement

#### **Bachelor of Science Requirement**

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- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Therapeutic Recreation Emphasis
- Sport and Recreation Administration Four-Year Plan Therapeutic Recreation Emphasis
- Courses offered by the program:
  - UW-M Online courses:
    - REC203: Therapeutic Recreation Process\* (3 hours)
    - REC300: Therapeutic Recreation Assessment and Documentation\* (4 hours)
    - REC308: Therapeutic Recreation in Physical Rehabilitation and Behavioral Health\* (4 hours)
    - REC310: Facilitation Techniques in Therapeutic Recreation\* (4 hours)
    - REC400: Issues and Trends in Therapeutic Recreation\* (3 hours)

Must earn a grade of "B" or higher in all Therapeutic Recreation courses to sit for certification examination.

- Carroll University Courses
  - REC480: Internship-Recreation Management (12 hours)



**Physical and Health Education (K-12) Major**

Courses in the Physical and Health Education Major (67 credits)

Courses toward the Adapted Physical Education License

Required Support Courses (14 credits)

Coaching Emphasis

Bachelor of Science Requirement

The Pioneer Core Program

[Physical Education/Health Education/Adapted Physical Education Four- One-Half-Year Curriculum Model](#)

Courses offered by the program:

## Physical Education/Health Education/Adapted Physical Education Four- One-Half-Year Curriculum Model

Class Standing	Fall Semester	Credits	Winter Term	Credits	Spring Semester	Cr
Year 1	CCS 100 ANP130 *H1 -HIS 105 or HIS 106	4 4 4			ENG 170 ANP 140 PED 103 EDU 102 HED 101	4 4 3 4 1 16
Year2	EDU 203 PED 208 PED 310 HED 201 P1	4 2 3 2 4	HED 202	2	PED 120 PED 110 PED 311 or PED 312 ATH 101 EDU 202 EDU 210	4 1 3 2 4 1 15
Year 3	ESC 280 ESC 322 PED 214 EDU 301 EDU 311	4 4 2 4 1	ENV252	2	PED 311 or PED 312 HED 323 CMP 112 PED 102 ESC 215 HED 204	3 4 4 2 2 2 17
Year 4	PED 411 PED 421 CMP 114 HED353	4 4 4 4	CCS 300	2	F1- Any A/M/T PED 353 EDU 306 PED 412 PED 414 CCS 400	4 4 2 2 1 2 15
Year 5	EDU 409/410	12 12				

**= 150 credits**

\*PPST must be successfully completed during sophomore year

\*\*PRAXIS Physical Education and Health Education Content Standards Test must be successfully completed during spring semester of or summer term followin

## Public Health Pre-PT

FALL-1			SPRING-1			SUMMER-1		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
CCS100	CULTURAL SEMINAR	4	PBH 102	Global Health	4			0
PBH 101	Intro. To Public Health	4	CHE110	PRINCIPLES OF CHEMISTRY II	4			0
			ENG170	WRITING SEMINAR	4			0
CMP112	COMPUTATIONAL THINKING I	4						0
TOT		12	TOT		12	TOT		0
CUM		12	CUM		24	CUM		24
FALL-2			SPRING-2			SUMMER-2		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PBH 210	Public Health for Communities	4	PBH 320	Principles of Health Behavior	4			
PBH 302	Environmental Health	2	GE1	GENERAL EDUCATION DISTR I	4			
GE1	GENERAL EDUCATION DISTR I	4	GE1	GENERAL EDUCATION DISTR I	4			
CMP 114	COMPUTATIONAL THINKING II-data analysis	4	PBH 312	Public Health Policy and Administration	4			
PBH ???	Occupational Health	2	CCS300	CROSS CULTURAL EXPERIENCE	2			
TOT		16	PBH 211	Field Experience	2	TOT		0
CUM		40	CUM		42	CUM		42
FALL-3			SPRING-3			SUMMER-3		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
GE2/CCD	GENERAL ED DIST / CCD	4	ANP403	ADV. PHYSIOLOGY	4	PBH 480	Public Health Internship	6
ANP402	ADV. ANATOMY	4	COM 290	Intro. To Health Communications	4			0
PBH 421	Epidemiology	4	PBH 324	Program Devel, Assess, & Eval	4			0
PHY 102	INTRO PHYSICS II	4						0
		0	CCS400	Global Perspective Colloquium	2			0
TOT		16	TOT		14	TOT		6
CUM		58	CUM		72	CUM		78
FALL-4			SPRING-4			SUMMER-4		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH400	FOUNDATIONS OF PROF. PRACTICE	3	PTH405	NEUROSCIENCE	3	PTH 500	PHYSICAL AGENTS	4
PTH401	STATISTICAL & RESEARCH METHODS	3	PTH411	FOUNDATIONS OF CLINICAL RESEARCH	2	PTH 501	ADVANCED PATIENT MANAGEMENT	3
PTH404	BIOMECHANICS	3	PTH412	TESTS AND MEASURES	3	PTH 512	EVIDENCE INTO PRACTICE	2
PTH406	EXERCISE PHYSIOLOGY	3	PTH414	ADVANCED KINESIOLOGY	3	PTH 520	PROFESSIONAL PRACTICE I	2
PTH408	INTRODUCTION TO PATIENT MANAGEMENT	3	PTH416	THERAPEUTIC EXERCISE	4	PTH 521	TEACHING LABORATORY PRACTICUM	2
		0			0	PTH 525	SYSTEMS DEVELOPMENT	2
TOT		15	TOT		15	TOT		15
CUM		93	CUM		108	CUM		123
FALL-5			SPRING-5			SUMMER-5		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 507	ORTHOPEDECS I	2	PTH 506	MOTOR CONTROL	4	PTH 611	CLINICAL INTERNSHIP II (12 WKS)	12
PTH 509	INTRODUCTION TO PHARMACOLOGY	2	PTH 508	GENERAL MEDICINE I	4			0
PTH 515	CLINICAL INTERNSHIP I (FINAL 7 WKS)	7	PTH 517	ORTHOPEDECS II	4			0
PTH 516	HUMAN MOTOR LEARNING (FINAL 7 WKS)	2	PTH 522	EVIDENCE BASED DECISION MAKING	2			0
PTH 535	APPLIED HUMAN BEHAVIOR (ENTIRE SEMES)	1	PTH 530	PROFESSIONAL PRACTICE II	2			0
		0	PTH 531	TEACHING LABORATORY PRACTICUM II	2			0
TOT		14	TOT		18	TOT		12
CUM		137	CUM		155	CUM		167
FALL-6			SPRING-6			SUMMER-6		
CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS	CRS	DESCRIPTION	CREDITS
PTH 606	NEUROLOGICAL SYSTEM DISORDERS	4	PTH614	CLINICAL INTERNSHIP III (16 WKS)	16			0
PTH 607	ORTHOPEDECS III	3						0
PTH 608	GENERAL MEDICINE II	4			0			0
PTH 620	PROFESSIONAL PRACTICE III	2			0			0
PTH 621	TEACHING LABORATORY PRACTICUM III	2			0			0
PTH 635	PEDIATRIC CARE	2			0			0
TOT		17	TOT		16			0
CUM		184	CUM		200	CUM		200

Carroll University Catalog > Undergraduate Catalog > Academics > College of Health Sciences > Health and Medicine > Undergraduate > Pre-Medical Laboratory Sciences > Medical Laboratory Sciences Major > [Sample Medical Laboratory Program at Carroll University](#)

### Medical Laboratory Sciences Major

Science and mathematics courses taken at Carroll University

Bachelor of Science Requirement

The Pioneer Core Program

Other Carroll University courses required in this transfer program

[Sample Medical Laboratory Program at Carroll University](#)

Sample Program for Medical Lab Sciences at UWM

## Sample Medical Laboratory Program at Carroll University

Class Standing	Fall Semester	Spring Semester	Winter/Summer Term
<b>Freshman</b>	ANP 130 - Intro to Anatomy and Physiology I CHE 109 - Principles of Chemistry I CCS 100 - Cross Cultural Seminar GE 1 (F,P,S) - General Education Course**	ANP 140 - Intro to Anatomy and Physiology II CHE 110 - Principles of Chemistry II ENG 170 - Writing Seminar ENG 164 (GE1 - H1, CCD) - American Indian Literature and Spirituality**	BIO 212 - Intro to Microbiology
<b>Sophomore</b>	CHE 203 - Organic Chemistry I* BIO 220 - Genetics CMP 112 - Computational Thinking I GE 1 (F,P,S) - General Education Course**	CHE 204 - Organic Chemistry II* NRS 236 - Human Pathophysiologic Responses GE 1 (F,P,S) - General Education Course** Elective**	CMP 114 - Computational Thinking II
<b>Junior</b>	Clinical Immunology course*** CHE 201 - Analytical Chemistry GE 2 (F,H,S or P) - General Education Courses** CHE 308 - Biochemistry I	[at UWM]	

\*Organic Chemistry courses (CHE 203 and 204) are also offered in the summer.

\*\*Work with the University of Wisconsin - Milwaukee Academic Advisor regarding appropriate coursework that will transfer and/or use this course equivalencies link: <https://www4.uwm.edu/des/apps/RTCE/> or search online for "Transfer Equivalency Database UWM". As the degree comes from UW-M, it is important to take General Education courses that will work at UW-M, not necessarily what is required for Carroll's Gen Ed program.

\*\*\*A Clinical Immunology course is required prior to going to UWM. It would be possible to transfer to UW-M after 2 years in order to finish up prerequisite courses there, including Immunology.

**Medical Laboratory Sciences Major**

Science and mathematics courses taken at Carroll University

Bachelor of Science Requirement

The Pioneer Core Program

Other Carroll University courses required in this transfer program

Sample Medical Laboratory Program at Carroll University

[Sample Program for Medical Lab Sciences at UWM](#)

**Sample Program for Medical Lab Sciences at UWM**

	Fall Semester	Spring Semester	Summer Term
<b>Junior</b>	[At Carroll University or UW-M to finish prerequisite courses]	Hematology Clinical Chemistry Medical Microbiology Molecular Diagnostics	Clinical Hematology Hemostasis Clinical Microbiology Medical Parasitology Urinalysis Clinical Chemistry
<b>Senior</b>	Advanced Hematology Immunohematology Blood Banking Lab Diagnosis Lab Practicum Toxicology	Advanced Hematology Practicum Advanced Clinical Lab Science Advanced Immunohematology Advanced Microbiology Practicum Advanced Chemistry Practicum Professional Development	

**Health Sciences -  
Radiologic Technology  
Emphasis**

 Required Carroll University  
Courses

 Bachelor of Science  
Requirement

The Pioneer Core Program

[Sample Radiologic Technology  
Program](#)

## Sample Radiologic Technology Program

**Sample Program at Carroll University**

The following course plan is intended as a sample only. Due to multiple hospital affiliations, actual courses and course sequence may vary and are subject to change. In addition to the curriculum completion, students participate in clinical placements during the professional phase of the program.

Class Standing	Fall Semester	Spring Semester	Summer Term
<b>Freshman</b>	CCS 100 ANP 130 [MAT 101 if needed] or PSY 101 (S1) GE 1 (H1 or F1)	ENG 170 ANP 140 PHY 101 GE 1 (H1 or F1)	Complete CNA training (optional) and begin earning required patient care experience.  CMP 112
<b>Sophomore</b>	CHE 101 PSY 221 (GE2, S2) PHY 102 COM 207 (S1, CCD)	CHE 102 PSY 260 (GE2, S2) CMP 114 PHI 194 (P1)	GE-CCE

**Sample Program at Partner Hospital**

The following course plan is intended as a sample only. Due to multiple hospital affiliations, actual courses and course sequence may vary and are subject to change. In addition to the curriculum completion, students participate in clinical placements during the professional phase of the program.

Class Standing	Fall Semester	Spring Semester	Summer Term
<b>Junior</b>	HSC 350 - Intro to Radiologic Science and Healthcare HSC 352 - Radiation Protection HSC 354 - Principles of Imaging I HSC 356 - Imaging Procedures I HSC 359 - Radiography Clinical Education I	HSC 351 - Seminar in Radiography I HSC 355 - Principles of Imaging II HSC 353 - Medical Terminology* HSC 357 - Imaging Procedures II HSC 360 - Radiography Clinical Education II	HSC 358 - Imaging Procedures III HSC 361 - Radiography Clinical Education III
<b>Senior</b>	HSC 450 - Radiographic Physics I HSC 452 - Digital Imaging HSC 454 - Cross Sectional Anatomy HSC 456 - Imaging Procedures IV HSC 459 - Radiography Clinical Education IV  CCS400: Global Perspectives Colloquium at Carroll (or in following spring semester)	HSC 451 - Radiographic Physics II/Imaging Equipment HSC 453 - Seminar in Radiography II HSC 455 - Independent Study HSC 457 - Radiographic Pathology HSC 458 - Radiation Biology HSC 460 - Radiography Clinical Education V  CCS400: Global Perspectives Colloquium at Carroll (or in previous fall semester)	HSC 461 - Radiography Clinical Education VI HSC 462 - Professional Development

\*Completing a college level 2 credit Medical Terminology course prior to hospital program application will remove the requirement for HSC 353.

Carroll University Catalog > Undergraduate Catalog > Academics > College of Health Sciences > Health and Medicine > Undergraduate > Health Sciences - Diagnostic Medical Sonography Emphasis > [Sample Sonography Program at Carroll University](#)

### Health Sciences - Diagnostic Medical Sonography Emphasis

Required Carroll University  
Courses

Bachelor of Science  
Requirement

The Pioneer Core Program

[Sample Sonography Program  
at Carroll University](#)

Sample Sonography Program  
at Partner Hospital (General  
and Vascular Track)

## Sample Sonography Program at Carroll University

Class Standing	Fall Semester	Spring Semester	Winter/Summer Term
<b>Freshman</b>	CCS 100 ANP 130 MAT 101 or GE 1 (H1, F1) ENG 170	COM 207 (S1, CCD) ANP 140 PHY 101 NRS 100	Complete CNA training and begin earning required 100 minimum hours of patient care as a CNA.  PSY 101 (S1)
<b>Sophomore</b>	CHE 101 PHY 102 PHI 194 (P1) CMP 112	CHE 102 NRS 236 NRS 230 PSY 221 (GE2, S2)	CMP 114 GE1 (H1, F1) GE-CCE

The following course plan is intended as a sample only. Due to multiple hospital affiliations, actual courses and course sequence may vary and are subject to change. In addition to the curriculum completion, students participate in clinical placements during the professional phase of the program.



**Health Sciences - Diagnostic Medical Sonography Emphasis**

Required Carroll University Courses

Bachelor of Science Requirement

The Pioneer Core Program

Sample Sonography Program at Carroll University

[Sample Sonography Program at Partner Hospital \(General and Vascular Track\)](#)

**Sample Sonography Program at Partner Hospital (General and Vascular Track)**

Class Standing	Fall Semester	Spring Semester	Winter/Summer Term
<b>Junior</b>	HSC 370 - Introduction to DMS HSC 371 - Abdominal Sonography I HSC 376 - OB/GYN Sonography I HSC 470 - Vascular Sonography I HSC 373 - Clinical Education I	HSC 372 - Abdominal Sonography II HSC 377 - OB/GYN Sonography II HSC 471 - Vascular Sonography II HSC 380 - Sonography Principles & Instrumentation HSC 374 - Clinical Education II	HSC 378 - OB/GYN Sonography III HSC 432 - Vascular Sonography III HSC 375 - Clinical Education III
<b>Senior</b>	HSC 379 - Specialized Sonography HSC 430 - Seminar in OB/GYN HSC 431 - Fetal Echocardiography HSC 433 - Introduction to Neurosonography HSC 473 - Clinical Education IV  CCS400: Global Perspectives Colloquium at Carroll (or in following spring semester)	HSC 434 - Introduction to Pediatric Imaging HSC 472 - Seminar in Professional Development HSC 435 - Introduction to Musculoskeletal Sonography HSC 474 - Clinical Education V  CCS400: Global Perspectives Colloquium at Carroll (or in previous fall semester)	

The following course plan is intended as a sample only. Due to multiple hospital affiliations, actual courses and course sequence may vary and are subject to change. In addition to the curriculum completion, students participate in clinical placements during the professional phase of the program.

Contact the Health and Medical Sciences Advisor for information regarding other DMS tracks and programs.

[Carroll University Catalog](#) > [Undergraduate Catalog](#) > [Academics](#) > [College of Health Sciences](#) > [Human Movement Sciences](#)

**College of Health Sciences**

Health and Medicine

[Human Movement Sciences](#)

» [Undergraduate](#)

[Nursing](#)

[Physical Therapy](#)

**Department: Human Movement Sciences**

Chairperson: Thomas Pahnke  
Room: Physical Therapy 113 Email: [tpahnke@carrollu.edu](mailto:tpahnke@carrollu.edu)  
Telephone: 262-951-3158 Fax: 262-524-7690

**Programs**

[Undergraduate](#)  
[Athletic Training Education](#)  
[Exercise Science](#)  
[Sports Nutrition](#)

**Human Movement  
Sciences**
**Undergraduate**

- » Athletic Training Education
- » Exercise Science
- » Sports Nutrition

**Program: Undergraduate**

College of Health Sciences  
Department: Human Movement Sciences

- **Athletic Training Education**

**Jamie Krzykowski**

**Thomas Pahnke**

**Jeffrey Sischo**

**Clinical Assistant Professor of Athletic Training and Exercise Science**

**Clinical Associate Professor of Athletic Training and Physical Therapy**

**Program Director and Clinical Assistant Professor of Athletic Training**

The Athletic Training Education Program at Carroll University is accredited by the Commission on Accreditation of Athletic Training Education. (CAATE)

The aim of the athletic training program is to train qualified health care professionals at the baccalaureate level who are educated and experienced in the management of health care problems associated with physical activity across the life span as defined by the National Athletic Trainers' Association. Students are educated to work with athletic and physically active populations in a variety of settings including, but not limited to, secondary schools, universities, professional sports programs, sports medicine clinics, prevention and wellness settings, and industrial settings.

The graduate athletic trainer is competent in the delivery of athletic training. The graduate possesses the knowledge and skills needed for risk management and prevention of injuries associated with physical activity, the pathology of injuries and illnesses, assessment and evaluation, and acute care of injury and illnesses for the physically active. The graduate applies knowledge and skills concerning pharmacology, therapeutic modalities, therapeutic exercise, general medical conditions and disabilities, and nutritional aspects of injury and illness for the physically active population. The athletic trainer demonstrates the ability to carry out psychosocial intervention and referral, perform health care administration, and uphold professional development and responsibilities as outlined by the National Athletic Trainers' Association. To ensure that the program is reflective of the development of athletic trainers at the baccalaureate level in a changing health care environment, ongoing student, faculty, program, institutional, and professional assessments occur regularly.

To meet the education mission for service and scholarly activity, the program utilizes a variety of individuals including, but not limited to, academic and clinical athletic trainers; basic, behavioral, and social scientists; other health care professionals; athletes and coaches; and community members. The athletic training academic faculty is responsible for design, implementation, and evaluation of the professional curriculum. In addition to the academic training of future athletic trainers, the program is committed to intra-and interdisciplinary service and scholarly activity in the delivery of athletic training.

- Learning Outcomes for Athletic Training Education Program

**Learning Outcomes for Athletic Training Education Program**

Upon graduation and entry into the field of athletic training, the individual:

1. Will possess the knowledge and skills of an entry-level athletic trainer in the six practice domains of athletic training set forth by the National Athletic Trainers' Association Board of Certification: Prevention of Injuries; Recognition, Evaluation & Assessment of Injuries; Immediate Care of Injuries; Treatment, Rehabilitation & Reconditioning of Injuries; Organization & Administration; and Professional Development & Responsibility.
2. Will have experience with multiple athletic training and health care settings including interactions with health care providers from various disciplines.
3. Will be able to think critically to effectively solve problems in a variety of dynamic athletic training environments.
4. Will understand the importance and process of becoming life-long learners in order to contribute to the field of athletic training.
5. Will be an effective communicator among health care providers, administrators, coaches, athletes, family, and community in their delivery of athletic training.
6. Will practice with professionalism and integrity and adhere to the professional code of ethics outlined by the National Athletic Trainers' Association.

- Academic Progression Standards

**Academic Progression Standards**

The academic progression standards for the athletic training education program are presented in the Academic and Program Policies section of this catalog.

- Admission Requirements

**Admission Requirements**

The admission requirements for the athletic training education program are presented in the Admission section of the catalog.

[Click here](#)

- Technical Standards

**Technical Standards for Admission to and Progression in the Athletic Training Education Program**

Successful participation in the Athletic Training Education Program requires that a student possess the ability to meet the requirements of the program. Though the program may modify certain course requirements in order to provide a handicapped person (handicapped is defined by the federal government pursuant to SS 504 of the Rehabilitation Act of 1973) with an equivalent opportunity to achieve results equal to those of a non-handicapped person, there are no substitutes for the following essential skills.

The applicant must initially meet these requirements to gain admission to the program, and must also continue to meet them throughout participation in the program.

**1. Physical requirements:** The applicant/student must be willing and capable of performing physical assessments (e.g. range of motion, manual muscle testing, visual observations) of patients using various evaluative and therapeutic instruments and equipment. The applicant/student must also be able to perform athletic training skills (e.g. taping, splinting, ambulatory aid, rehabilitative and treatment techniques, activities of daily living). In addition, an applicant/student must successfully complete and maintain certification in first aid and cardiopulmonary resuscitation.

**2. Communication:** An applicant/student must be able to elicit information, describe changes in health, mood, and activity and perceive non-verbal communication. An applicant/student must be able to communicate effectively and efficiently with patients and all members of the health care team.

**3. Intellectual abilities:** Problem solving, a critical skill of athletic trainers, requires abilities in measurement, calculation, reasoning and analysis.

**4. Behavioral and social attributes:** The applicant/student must be able to tolerate physically active taxing workloads and to function effectively under stress, must be able to adapt to changing environments, to display flexibility, and to learn to function in the face of uncertainties inherent in athletic training care provided to people. The applicant/student must possess the qualities of integrity, concern for others, compassion, skills in interpersonal relationships and motivation for a career in health care.

The athletic training program can require that an applicant/student undergo a physical examination. A handicapped applicant/student shall not, on the basis of his or her handicap (except those which would preclude the essential skills outlined above) be excluded from participation in, denied benefits of, nor be subjected to discrimination in the athletic training program. Policies for students with disabilities can be found in the Student Life section of the academic catalog.

- o Caregiver Background and Criminal History Check

#### **Health Screening, Immunizations and Criminal Background Investigation**

Athletic training professional phase students are required to have completed a health screening, updated immunizations and tuberculosis screening according to current Centers of Disease Control and Prevention (CDC) recommendations for health professionals, criminal background investigation and drug screening as required by internship placement sites. Exceptions to the immunization requirements will be considered on a case-by-case basis where, for example, a student has an allergy to a vaccine or one of its components. If an exception to the immunization requirements is approved, the University cannot guarantee that its affiliated hospitals and clinics will allow the student to participate in patient care, which is a fundamental requirement of the clinical education component of the program.

- o Insurance

#### **Insurance**

**Health:** Athletic Training Education Program students are required to have medical insurance. Those who are covered by a family or personal policy must provide the insuring company's name and the policy number on a waiver form that is sent to the student by the university business office. For students without their own coverage, a group insurance policy is available through the university. Athletic Training students are also required to have a personal health history and physical form completed and on file in the administrative area of the Health Sciences.

**Professional Liability:** Students are required to purchase on an annual basis professional liability insurance through a university-endorsed company.

- o Fees

#### **Fees**

Students enrolled in the professional phase of the Athletic Training Education Program are assessed a program fee for course related supplies and equipment, assistance with membership dues in the National Athletic Trainer Association, and liability insurance. Select athletic training course in the preprofessional phase that require use of equipment and disposable supplies are assigned a course fee.

- o Curriculum

#### **Curriculum**

Throughout the curriculum, subject matter progresses from the basic sciences to clinical sciences to professional content.

In coordination with academic coursework, learning over time occurs by interaction with clinical instructors through field experiences in traditional athletic training settings, other health care settings, and practice and athletic event coverage. Students can expect to travel to offsite clinical rotations/laboratory sessions or field experiences in the professional phase of the program. Throughout the program, students are evaluated on the attainment of knowledge to include psychomotor, cognitive, and affective competencies as outlined by the National Athletic Trainers' Association Education Council. Outcomes are measured through ongoing self, peer, and clinical instructor assessments.

Ongoing program assessments include student evaluations and feedback, curriculum evaluations, institutional self study assessment and site visits by the Commission on Accreditation of Athletic Training Education (CAATE).

- o Athletic Training Major
  - o ATH101: Athletic Training Seminar I (2 hours)  
AND -ATH101L: Athletic Training Seminar I Lab
  - o ATH102: Athletic Training Seminar II (2 hours)  
AND -ATH102L: Athletic Training Seminar II Laboratory
  - o ATH301: Assessment and Evaluation I (4 hours)  
AND -ATH301L: Assessment and Evaluation I Laboratory

- ATH302: Assessment and Evaluation II (4 hours)  
AND -ATH302L: Assessment and Evaluation II Laboratory
- ATH304: Therapeutic Modalities (4 hours)  
AND -ATH304L: Therapeutic Modalities Lab
- ATH307: General Medicine and Pharmacology for Athletic Training (2 hours)
- ATH312: Athletic Training Practicum I (2 hours)
- ATH403: Applied Exercise for Musculoskeletal Injuries (4 hours)  
AND -ATH403L: Applied Exercise for Musculoskeletal Injuries Laboratory
- ATH405: Admin of Athletic Training (2 hours)
- ATH407: Athletic Training Seminar III (2 hours)
- ATH411: Athletic Training Practicum II (2 hours)
- ATH499: Capstone-Internship in Athletic Training (14 hours)
- ESC320: Exercise Testing and Prescription (4 hours)  
AND -ESC320L: Exercise Testing & Prescription Lab
- Required Support Courses (42 credits)
  - ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
  - ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
  - CHE101: General Chemistry (4 hours)  
AND -CHE101L: General Chemistry Laboratory
  - CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
  - HED101: Intro to Health Care Skills (1 hours)  
OR -: Equivalent CPR
  - PED110: Basic Weight Training Instruction (1 hours)  
AND -PED110L: Basic Weight Training Instruction Laboratory
  - ESC280: Exercise Physiology (4 hours)
  - ESC300: Nutrition and Health (4 hours)
  - ESC322: Kinesiology (4 hours)
  - PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
  - PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
  - PSY101: Introductory Psychology (4 hours)
- Degree Support Courses (8 credits)
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Athletic Training Education Program Four-Year Curriculum Model
- Pre-Physical Therapy 4 year plan

[Click here](#) for a four year plan with a major in Athletic Training.

- Courses offered by the program:
  - ATH101: Athletic Training Seminar I (2 hours)
  - ATH101L: Athletic Training Seminar I Lab
  - ATH102: Athletic Training Seminar II (2 hours)
  - ATH102L: Athletic Training Seminar II Laboratory
  - ATH301: Assessment and Evaluation I (4 hours)
  - ATH301L: Assessment and Evaluation I Laboratory
  - ATH302: Assessment and Evaluation II (4 hours)
  - ATH302L: Assessment and Evaluation II Laboratory
  - ATH304: Therapeutic Modalities (4 hours)
  - ATH304L: Therapeutic Modalities Lab
  - ATH307: General Medicine and Pharmacology for Athletic Training (2 hours)
  - ATH312: Athletic Training Practicum I (2 hours)
  - ATH403: Applied Exercise for Musculoskeletal Injuries (4 hours)
  - ATH403L: Applied Exercise for Musculoskeletal Injuries Laboratory
  - ATH405: Admin of Athletic Training (2 hours)
  - ATH407: Athletic Training Seminar III (2 hours)
  - ATH411: Athletic Training Practicum II (2 hours)
  - ATH499: Capstone-Internship in Athletic Training (14 hours)

#### • Exercise Science

<b>Brian P. Edlbeck</b>	<b>Clinical Assistant Professor</b>
<b>John W. Harrell</b>	<b>Assistant Professor</b>
<b>Jamie L. Krzykowski</b>	<b>Clinical Assistant Professor</b>
<b>David B. MacIntyre</b>	<b>Clinical Associate Professor</b>
<b>Jason T. Roe</b>	<b>Senior Lecturer</b>
<b>Timothy J. Suchomel</b>	<b>Assistant Professor</b>

The mission of the Exercise Science Program at Carroll University is to develop entry-level professionals who can perform a range of health/fitness assessments and prescribe evidence-based interventions across various populations and abilities. Students will possess strong critical thinking, communication, and interpersonal skills appropriate for multiple settings. The program will prepare students for professional certification exams (ACSM, NSCA) and postgraduate study in exercise science or other related disciplines.

The exercise science program emphasizes the area's body of knowledge, research, and practice. Constant reinforcement of content through practical experiences occurs through observations, exposure to clients in academic courses, practicum experiences, and full-time internships. Graduates are qualified professionals who are liberally educated and possess the foundations for lifelong learning.

Individuals interested in health/fitness management are prepared to provide exercise and general wellness programs to apparently healthy individuals across the life span in safe and effective environments. Those interested in strength and conditioning are prepared to provide training programs to improve athletic performance across the life span. Students are also well prepared for advanced study in either graduate school or a clinical health field.

### Learning Outcomes for Exercise Science

Upon completion of the exercise science program, the student:

- 1) Will be prepared for entry-level employment, relevant professional certifications or advanced degrees in health-related graduate programs.
- 2) Will be able to appropriately screen prospective clients and select, implement, and interpret health and fitness assessments across various populations and abilities.
- 3) Will be able to appropriately select, design, implement, and modify individualized health and fitness interventions for clients across various populations and abilities.
- 4) Will be able to educate, instruct, and motivate individuals in lifestyle modification in diverse settings across various populations and abilities.
- 5) Will possess strong communication and interpersonal skills to interact and collaborate effectively with professionals and peers.
- 6) Will be able to access, read and interpret scientific research and utilize the scientific inquiry process to collect appropriate and analyze data, interpret results and present conclusions in suitable oral, written, and technology formats.

### Fees

Specific courses that require use of equipment and disposable supplies are assigned a course fee.

- o **Exercise Science Major**
  - o Core Courses
    - o ESC100: Introduction to Exercise Science (2 hours)
    - o ESC280: Exercise Physiology (4 hours)  
AND -ESC280L: Exercise Physiology Lab
    - o ESC300: Nutrition and Health (4 hours)
    - o ESC320: Exercise Testing and Prescription (4 hours)  
AND -ESC320L: Exercise Testing & Prescription Lab
    - o ESC322: Kinesiology (4 hours)  
AND -ESC322L: Kinesiology Lab
    - o ESC390: Strength & Conditioning Theory Across the Lifespan (4 hours)  
AND -ESC390L: Strength and Conditioning Theory Across the Lifespan Lab
    - o ESC420: Exercise Prescription for Special Populations (4 hours)
  - o Supporting Courses
    - o ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
    - o ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
    - o CHE101: General Chemistry (4 hours)  
AND -CHE101L: General Chemistry Laboratory
    - o CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
    - o CMP112: Computational Thinking I (4 hours)
    - o CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - o Tracks
    - o Undergraduate Exercise Science (UG-ESC) Option
      - o ESC460: Exercise Science Capstone (4 hours)
    - o Exercise Science-Doctor of Physical Therapy (ESC-DPT) Option
      - o ANP402: Human Anatomy (4 hours)  
AND -ANP402L: Human Anatomy Laboratory
      - o ANP403: Human Physiology (4 hours)  
AND -ANP403L: Human Physiology Laboratory
      - o PHY101: Introductory Physics I (4 hours)  
AND -PHY101L: Introductory Physics Laboratory
      - o PHY102: Introductory Physics II (4 hours)  
AND -PHY102L: Introductory Physics Laboratory
      - o PSY101: Introductory Psychology (4 hours)
    - o Exercise Science-Master of Science in Exercise Physiology (ESC-MS EXP) Option  
  
Consult MS-EXP graduate advisor for course progression.
  - o ESC 4 Year Plans
    - o Exercise Science Four-Year Curriculum Model
    - o Pre-Physical Therapy 4 year plan  
  
[Click here](#) for a four year plan with a major in Exercise Science, Cohort A.  
  
[Click here](#) for a four year plan with a major in Exercise Science, Cohort B.
  - o Bachelor of Science Requirement

### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- o CMP112 and either CMP113 or CMP114 or
- o MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- o The Pioneer Core Program

- Cross-Cultural Component
- Distribution Component
- GE1 and GE2 Courses
- Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Courses offered by the program:
  - ESC100: Introduction to Exercise Science (2 hours)
  - ESC201: Sports Nutrition (4 hours)
  - ESC202: Advanced Sports Nutrition (4 hours)
  - ESC215: Group Exercise Workshop (2 hours)
  - ESC215L: Group Exercise Workshop Lab
  - ESC280: Exercise Physiology (4 hours)
  - ESC280L: Exercise Physiology Lab
  - ESC300: Nutrition and Health (4 hours)
  - ESC303: Nutrition Assessment and Prescription (3 hours)
  - ESC304: Nutrition and Fitness for Special Populations (3 hours)
  - ESC305: Supplements for Sports Performance (2 hours)
  - ESC320: Exercise Testing and Prescription (4 hours)
  - ESC320L: Exercise Testing & Prescription Lab
  - ESC322: Kinesiology (4 hours)
  - ESC322L: Kinesiology Lab
  - ESC390: Strength & Conditioning Theory Across the Lifespan (4 hours)
  - ESC390L: Strength and Conditioning Theory Across the Lifespan Lab
  - ESC391: Strength & Conditioning for Sport (2 hours)
  - ESC420: Exercise Prescription for Special Populations (4 hours)
  - ESC440: Lifetime Weight Management and Behavior Change (4 hours)
  - ESC460: Exercise Science Capstone (4 hours)
  - ESC480: Internship (12 hours)

- **Sports Nutrition**

**Brian P. Edlbeck**  
**Jamie L. Krzykowski**

**Clinical Assistant Professor**  
**Clinical Assistant Professor**

Program Goals: The overall goal of the Sports Nutrition minor is to provide the student with information on the combination of sound nutrition and exercise principles to improve both sports performance and health. A further goal is to give the student tools to make decisions on sports nutrition information presented in the popular media and effectively work with a client on unique sports related needs. Additionally, the minor has been recognized by the International Society of Sports Nutrition (ISSN) and is designed to prepare students for CISSN sports nutrition certification.

#### **Learning Outcomes for Sports Nutrition**

Upon completion of the sports nutrition minor program, the individual:

1. Will be able to effectively evaluate popular nutrition claims.
2. Will be able to identify and evaluate related research.
3. Will be able to effectively assess a client's needs and prescribe appropriate nutrition and exercise programs.
4. Will be able to communicate effectively to the client.
5. Will possess the knowledge and skills needed to sit for the CISSN certification exam.

- **Sports Nutrition Minor**
- Courses required for the Minor
  - ESC300: Nutrition (4 hours)
  - OR -HED201: Nutrition (2 hours)
  - ESC201: Sports Nutrition (4 hours)
  - ESC202: Advanced Sports Nutrition (4 hours)
  - ESC303: Nutrition Assessment and Prescription (3 hours)
  - ESC304: Nutrition and Fitness for Special Populations (3 hours)
  - ESC305: Supplements for Sports Performance (2 hours)
  - ESC320: Exercise Testing and Prescription (4 hours)
  - AND -ESC320L: Exercise Testing & Prescription Lab

**Athletic Training Major**

- ATH101: Athletic Training Seminar I
- ATH102: Athletic Training Seminar II
- ATH301: Assessment and Evaluation I
- ATH302: Assessment and Evaluation II
- ATH304: Therapeutic Modalities
- ATH307: General Medicine and Pharmacology for Athletic Training
- ATH312: Athletic Training Practicum I
- ATH403: Applied Exercise for Musculoskeletal Injuries
- ATH405: Admin of Athletic Training
- ATH407: Athletic Training Seminar III
- ATH411: Athletic Training Practicum II
- ATH499: Capstone-Internship in Athletic Training
- ESC320: Exercise Testing and Prescription
- Required Support Courses (42 credits)
- Degree Support Courses (8 credits)
- Bachelor of Science Requirement
- The Pioneer Core Program
- [Athletic Training Education Program Four-Year Curriculum Model](#)
- Pre-Physical Therapy 4 year plan

## Athletic Training Education Program Four-Year Curriculum Model

<b>Class Standing</b>	<b>Fall Semester</b>	<b>Fall Semester Credits</b>	<b>Spring Semester</b>	<b>Spring Semester Credits</b>
<b>Freshman</b>	CSC 100 CHE101 GE1 (F, H, or P) GE1 (F, H, or P) HED 101 <b>Total</b>	4 4 4 4 1 <b>17</b>	ENG 107 (GE) CHE 102 PHY 101 GE1 (F, H, or P) ATH 101 <b>Total</b>	4 4 4 4 2 <b>18</b>
<b>Sophomore</b>	PHYS 102 ANP 130 PSY 101 (S1) CMP 112 ATH 102 <b>Total</b>	4 4 4 4 2 <b>18</b>	PSY 221 (GE2/CCD) ANP 140 PED 110 ESC 280 <i>GE CCE</i> <b>Total</b>	4 4 1 4 <i>2</i> <b>13/15</b>
<b>Junior</b>	ESC 320 ATH 301 ESC 322 ATH 311 ESC 300 <i>GE CCE</i> <b>Total</b>	4 4 4 1 4 <i>2</i> <b>17/19</b>	CMP 114 ATH 302 ATH 304 HSC 300 ATH 312 <i>GE CCE</i> <b>Total</b>	4 4 4 3 1 <i>2</i> <b>16/18</b>
<b>Senior</b>	ATH 403 ATH 405 ATH 407 ATH 411 Elective GE (GPC) <b>Total</b>	4 2 2 1 4 2 <b>13/15</b>	ATH 499 or GE (GPC)    <b>Total</b>	14 2    <b>14/16</b>

=

**Total Credits 130 credits**



Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ANP130	Intro to Human Anat. & Phys. I	4
CHE101	General Chemistry	4
GE1	F1/H1/P1/S1	4
Semester Credits		16
Total Credits		16

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		16

Spring - Year 1		
Course	Course Title	CR
ENG170	Writing Seminar	4
ANP140	Intro to Human Anat. & Phys. II	4
CHE102	Biological Chemistry	4
GE1	F1/H1/P1/S1	4
ESC100	Intro to Exercise Science	2
Semester Credits		18
Total Credits		34

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		34

Fall - Year 2		
Course	Course Title	CR
ESC280	Exercise Physiology	4
ESC300	Nutrition & Health	4
GE1	F1/H1/P1/S1	4
GE1	F1/H1/P1/S1	4
Semester Credits		16
Total Credits		50

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		50

Spring - Year 2		
Course	Course Title	CR
ESC320	Exercise Testing & Prescription	4
CMP112	Computational Thinking I	4
ELE	Elective	4
GE2	F2/H2/P2/S2	4
Semester Credits		16
Total Credits		66

Summer - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		66

Fall - Year 3		
Course	Course Title	CR
ESC390	Strength & Conditioning Theory	4
ESC420	Ex. Prescription for Special Pop.	4
ELE	Elective	4
ELE	Elective	4
	CCE	2
Semester Credits		18
Total Credits		84

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		84

Spring - Year 3		
Course	Course Title	CR
ESC322	Kinesiology	4
CMP114	Computational Thinking II	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		100

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		100

Fall - Year 4		
Course	Course Title	CR
ESC460	Exercise Science Capstone	4
CCS400	Global Perspectives Colloquium	2
ELE	Elective	4
ELE	Elective	4
Semester Credits		14
Total Credits		114

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		114

Spring - Year 4		
Course	Course Title	CR
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		130

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		130

Fall - Year 1		
Course	Course Title	CR
CCS100	Cultural Seminar	4
ANP130	Intro to Human Anat. & Phys. I	4
CHE101	General Chemistry	4
ENG170	Writing Seminar	4
ESC100	Intro to Exercise Science	2
Semester Credits		18
Total Credits		18

Winter - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		18

Spring - Year 1		
Course	Course Title	CR
ANP140	Intro to Human Anat. & Phys. II	4
CHE102	Biological Chemistry	4
ESC280	Exercise Physiology	4
GE1	F1/H1/P1/S1	4
Semester Credits		16
Total Credits		34

Summer - Year 1		
Course	Course Title	CR
Semester Credits		0
Total Credits		34

Fall - Year 2		
Course	Course Title	CR
ESC320	Exercise Testing & Prescription	4
CMP112	Computational Thinking I	4
GE1	F1/H1/P1/S1	4
GE1	F1/H1/P1/S1	4
Semester Credits		16
Total Credits		50

Winter - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		50

Spring - Year 2		
Course	Course Title	CR
ESC390	Strength & Conditioning Theory	4
ESC300	Nutrition & Health	4
ESC420	Ex. Prescription for Special Pop.	4
ELE	Elective	4
Semester Credits		16
Total Credits		66

Summer - Year 2		
Course	Course Title	CR
Semester Credits		0
Total Credits		66

Fall - Year 3		
Course	Course Title	CR
ESC322	Kinesiology	4
CMP114	Computational Thinking II	4
ELE	Elective	4
ELE	Elective	4
	CCE	2
Semester Credits		18
Total Credits		84

Winter - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		84

Spring - Year 3		
Course	Course Title	CR
GE1	F1/H1/P1/S1	4
GE2	F2/H2/P2/S2	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		100

Summer - Year 3		
Course	Course Title	CR
Semester Credits		0
Total Credits		100

Fall - Year 4		
Course	Course Title	CR
ESC460	Exercise Science Capstone	4
ELE	Elective	4
ELE	Elective	4
CCS400	Global Perspectives Colloquium	2
Semester Credits		14
Total Credits		114

Winter - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		114

Spring - Year 4		
Course	Course Title	CR
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
ELE	Elective	4
Semester Credits		16
Total Credits		130

Summer - Year 4		
Course	Course Title	CR
Semester Credits		0
Total Credits		130

[Carroll University Catalog](#) > [Undergraduate Catalog](#) > [Academics](#) > [College of Health Sciences](#) > [Nursing](#)

**College of Health Sciences**

Health and Medicine

Human Movement Sciences

**Nursing**

» Undergraduate

Physical Therapy

**Department: Nursing**

Chairperson: Angela Brindowski

Room: Voorhees B5      Email: [abrindow@carrollu.edu](mailto:abrindow@carrollu.edu)

Telephone: 262-650-4927      Fax: 262-574-2618

**Programs**

Undergraduate  
Nursing

**Nursing****Undergraduate**

&gt; Nursing

**Program: Undergraduate**College of Health Sciences  
Department: Nursing• **Nursing****Lisa Brandt****Angela Brindowski****Lisa Green****Jamie Hansen****Megan Holz****Karla Kwapil****Nicole Mattson****James Mikolajczak****Allyson Rennebohm****Michael Rodriques****Kathy Sampson****Jill Switalski****Clinical Assistant Professor****Gladys McKay Richter Endowed Chair and  
Clinical Associate Professor****Clinical Assistant Professor****Clinical Assistant Professor****Clinical Assistant Professor****Clinical Assistant Professor****Clinical Assistant Professor****Clinical Assistant Professor****Community Inter-professional Liason****Clinical Assistant Professor****Senior Lecturer****Laboratory Coordinator**

Carroll University offers a program leading to a Bachelor of Science in Nursing degree. Established in fall of 2002, the nursing program is accredited by the Commission on Collegiate Nursing Education, has ongoing approval of the Wisconsin State Board of Nursing, is a member of the American Association of Colleges of Nursing and the National League for Nursing. Carroll University is accredited by the Higher Learning Commission and is a member of the North Central Association.

The Higher Learning Commission  
North Central Association  
30 North LaSalle St., Suite 2400  
Chicago, IL 60602  
Phone: 800.621.7440

Department of Regulation and Licensing  
Wisconsin State Board of Nursing  
1400 E. Washington Ave., Room 166  
Madison, WI 53708

National League for Nursing (NLN)  
61 Broadway, 33rd Floor  
New York, New York 10006

NLN Accrediting Commission  
61 Broadway, 33rd floor  
New York, New York 10006  
Phone: 800.669.1656

American Association of Colleges  
One Dupont Circle NW, Suite 531  
Washington, DC 20036

Commission on Collegiate of Nursing Education (CCNE)  
One Dupont Circle NW, Suite 530  
Washington, DC 20036  
Phone: 202.887.6791

- Mission of the Nursing Program

**Mission of the Nursing Program**

The Carroll University Nursing Program prepares students, in diverse settings, for professional nursing practice and other global pursuits.

- Philosophy and Vision of the Nursing Program

**Philosophy of the Nursing Program**

Our philosophy, in preparing professional nurses at the generalist level, is to provide grounding in the liberal arts in addition to career preparation. The educational process must allow for diversity, curiosity, and difference of opinion, but must not allow for indifference or neglect of academic rigor. We expect nursing students to focus on and connect nursing to every general education or liberal studies course. However, it is in clinical practice that the student will demonstrate patterns of professional behaviors that follow the legal and ethical codes of nursing and promote the actual or potential well being of patients. The promotion of health and wellness is a focus of all nursing practice, but nurses, more than any other health care discipline, takes care of the sick; therefore, acute care experience is a necessary background for any generalist practice setting and is a focus of generalist education. We believe nursing students are best served when they are educated in a variety of settings to provide care to diverse populations across all environments. The promotion of health and wellness, the prevention of injury and restoration of health are accomplished for a diversity of socio-economic, racial and ethnic populations in all settings.

Nursing faculty at Carroll University believe students are individuals who come with learning preferences, different experiences, varied goals, and therefore, have unique learning needs. Active learning is a teaching/learning partnership. The faculty recognizes that learning is a lifelong process and that

undergraduate education is the beginning of the progression from novice to expert nurse. The baccalaureate program prepares the student to enter professional nursing practice as a beginning provider of nursing care in a variety of settings, cultivates a commitment to professional development, and provides the foundation for graduate study.

### Curriculum

Our philosophy requires that the curriculum be responsive to the community of interest. To accomplish our mission, we consider it necessary to be flexible, to change quickly as society needs and technology changes. The program has been designed to be flexible in progression and sequencing, without sacrificing academic rigor. The conceptual framework, developed by nursing faculty, organizes the curriculum in a logical progression over the length of the program. The overviews in each course syllabus will illustrate how the essential components of professional nursing education are used in that course to prepare students to take on the characteristics that will allow them to function in the professional nursing role. Course objectives will demonstrate the achievement necessary for the student, at each level of the curriculum, to evidence competency as they progress.

### Vision of the Carroll University Nursing Program

Be a leader of Baccalaureate nursing education.

- o Program Outcomes

#### Program Outcomes

At the completion of the Bachelor of Science Nursing program, the graduate nurse will:

- I. Value a solid base in liberal education as the cornerstone of nursing practice and education.
- II. Operationalize knowledge and skills in leadership, quality improvement and patient safety to provide high quality healthcare.
- III. Model professional nursing practice that is grounded in the translation of current evidence into practice.
- IV. Integrate knowledge and skills in information management and patient care technology in the delivery of quality patient care.
- V. Recognize and distinguish healthcare policies, including financial and regulatory, which influence the nature and functioning of the healthcare system.
- VI. Effectively communicate and collaborate to deliver high quality and safe patient care.
- VII. Incorporate the concepts of health promotion and disease prevention at the individual and population level.
- VIII. Internalize professionalism and the inherent values of altruism, autonomy, human dignity, integrity and social justice.
- IX. Practice as a baccalaureate-graduate nurse
  - a. prepared to deliver care to individuals, families, groups, communities and populations across the lifespan and across the continuum of healthcare environments.
  - b. understanding and respecting the variations of care, the increased complexity and the increased use of healthcare resources inherent in caring for patients.

- o Academic Progression Standards

**The academic progression standards for the nursing program are presented in the Academic Program and Policies section of this Catalog. Or, [click here](#) for a direct link.**

- o Technical Standards

#### Technical Standards for Admission to and Progression in the Carroll University Bachelor of Science in Nursing Program

Successful participation in the Carroll University Bachelor of Science in Nursing Program requires that a candidate possess the ability to meet the requirements of the program. Though the program may modify certain course requirements in order to provide a handicapped<sup>1</sup> person with an equivalent opportunity to achieve results equal to those of a non-handicapped person, there are no substitutes for the following essential skills. The applicant/candidate must initially meet these requirements to gain admission to the program and must also continue to meet them throughout participation in the program.

**General Ability:** The student is expected to possess functional use of the senses of vision, touch, hearing and smell so that data received by the senses is integrated, analyzed and synthesized in a consistent and accurate manner. The student is expected to possess the ability to perceive pain, pressure, temperature, position, vibration and movement in order to effectively evaluate patients. A student must be able to respond promptly to urgent situations.

**Observational Ability:** The student must have the ability to make accurate visual observations and interpret them in the context of clinical/laboratory activities and patient care experiences. The student must be able to document these observations accurately.

**Communication Ability:** The student must communicate effectively verbally and non-verbally to obtain information and explain that information to others. Each student must have the ability to read, write, comprehend and speak the English language to facilitate communication with patients, family members and other members of the health care team. The student must be able to document and maintain accurate records, present information in a professional manner and provide patient instruction to effectively care for patients and their families.

**Motor Ability:** The student must be able to perform gross and fine motor movements with sufficient coordination needed to provide complete physical assessments and provide safe effective care for patients. The student is expected to have psychomotor skills necessary to perform or assist with procedures, treatments, administration of medication and emergency interventions including CPR if necessary. The student must have sufficient levels of neuromuscular control and eye-to-hand coordination as well as possess the physical and mental stamina to meet the demands associated with extended periods of sitting, standing, moving and physical exertion required for safe patient care. Students must be able to bend, squat, reach,

kneel or balance. Clinical settings may require that students have the ability to carry and lift loads from the floor, from 12 inches from the floor, to shoulder height and overhead. The student must be able to occasionally lift 50 pounds, frequently lift 25 pounds and constantly lift 10 pounds. The student is expected to be able to maintain consciousness and equilibrium and have the physical strength and stamina to perform satisfactorily in clinical settings.

**Intellectual:** Conceptual Ability: The student must have the ability to develop problem-solving skills essential to professional nursing practice. Problem solving skills include the ability to measure, calculate reason, analyze, synthesize objective and subjective data, and to make decisions in a timely manner that reflects thoughtful deliberation and sound clinical judgment. The student must demonstrate application of these skills and possess the ability to incorporate new information from peers, instructors and the nursing/healthcare literature to formulate sound judgment to establish care plans and priorities in patient care activities.

**Behavioral and Social Attributes:** The student is expected to have the emotional stability required to exercise sound judgment, complete assessment and intervention activities. Compassion, integrity, motivation and concern for others are personal attributes required of those in the nursing program. The student must fully utilize intellectual capacities that facilitate prompt completion of all responsibilities in the classroom and clinical settings; the development of mature, sensitive and effective relationship with patients and other members of the healthcare team. The ability to establish rapport and maintain interpersonal relationships with individuals, families and groups from a variety of social, emotional, cultural and intellectual backgrounds is critical for practice as a nurse. Each student must be able to adapt to changing environments; display flexibility; accept and integrate constructive criticism given in the classroom and clinical settings; and effectively collaborate in the clinical setting with other members of the healthcare team.

**Ability to Manage Stressful Situations:** The student must be able to adapt to and function effectively in relation to stressful situations encountered in both the classroom and clinical settings, including emergency situations. Students will encounter multiple stressors while in the nursing program. These stressors may be (but are not limited to) personal, patient care/family, faculty/peer and/or program related.

**Background Check:** Clinical facilities require that Carroll University perform background checks on all students before they are allowed to participate in clinical experiences. Therefore, students will be required to have a background check performed before being allowed into clinical practice

**Evaluation:** Carroll University may require that the applicant/student undergo a physical examination and/or an occupational skills evaluation. The University will endeavor to select and administer evaluations which accurately reflect the applicant's/candidate's aptitude or achievement level rather than the applicant's/candidate's handicap. A handicapped applicant/candidate shall not, on the basis of his or her handicap (except those which would preclude the essential skills outlined above) be excluded from participation in, denied the benefits of, nor be subjected to discrimination in the program.

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<sup>1</sup>. Handicapped as defined by the federal government pursuant to SS 504 of the Rehabilitation Act of 1973.

- o Caregiver Background Check

#### **Caregiver Background Check**

The applicant/candidate/student must complete a Background Information Disclosure Form prior to clinical placement in the program. The university intends to fully comply with the requirements of the Wisconsin Caregiver Background Check Law which requires hospitals and other health care and treatment entities to perform background checks on all persons who have direct, regular contact with clients. Certain convictions may prevent or significantly limit the ability of the university to place a student in a clinical program resulting in the student being unable to meet the university's graduation requirements. The university reserves the right to reject the application of a candidate or remove a student from the program if the university determines that the results of the caregiver background check demonstrate that the applicant/student does not exhibit behavior and social attributes consistent with the program's Technical Standards.

- o Carroll University Health Policy for Nursing Students

#### **Health Policy for Nursing Students**

##### **Policy:**

Prior to the first clinical placement each student must show evidence that they are able to meet the clinical requirements of the nursing program. These requirements include current health history, immunization and physical examination data. In addition, all students must have on file current CPR certification and a caregiver background check. The nursing student handbook lists all health and immunization clinical requirements. If an exception to the immunization requirements is approved, the University cannot guarantee that its affiliated hospitals and clinics will allow the student to participate in patient care, which is a fundamental requirement of the clinical education component of the Nursing Program.

##### **Procedure:**

- Evidence of the completed history and exam and immunization record must be on file before the onset of the first clinical experience. The University Health History and Physical Examination form meets the history and exam clinical experience requirement.
- Clinical partners require the History and physical exam be completed and signed by a physician or nurse practitioner. The physical exam can be completed at the Carroll University Health Center.
- It is not necessary to repeat the physical exam every year if there is no change in the student's health status.
- Before your first clinical placement one of the following is required: Two step TB skin test (1-3 weeks apart) or QuantiFeron Gold blood test or if you have a history of a positive TB skin test, provide a negative Chest XRay report.

- Some clinical partners require a urine drug screen. The urine drug screen can be completed at the Carroll University Health Center.
  - Cost of the physical exam, immunizations, and drug screen is the responsibility of the student.
  - Students who have not complied with the health policy will not be allowed in any clinical site.
- o Time Commitment

#### **Time Commitment**

The Nursing Program is rigorous, labor intensive, and requires more time and commitment than many other areas of study. Clinical nursing courses require a minimum of 3 hours of direct clinical experience per semester credit hour. This does not include time that is required for travel, clinical preparation at the assigned clinical agency or study prior to or after the clinical experience. Therefore, it is strongly recommended that students in the Nursing Program limit their employment and/or involvement in non-student related activities. Students are expected to be available Monday through Friday throughout the academic year. Students will be expected to participate in clinical experiences that occur on weekends and on shifts other than day shifts (0700-1530). Students in the capstone experience must understand that their clinical experience may be evenings or night shifts and/or weekend shifts.

- o Clinical Nursing Core Requirements

#### **Clinical Nursing Core Requirements**

All applicants must be in good health and free from communicable diseases and be able to carry out the functions of a professional nurse as specified in the Technical Standards. Students must maintain current immunizations, CPR certification and professional liability insurance. Additional tests may be required by specific agencies in which the student has clinical experiences. The program will notify students when such tests are required. Students who fail to comply will not be allowed in clinical. All costs associated with clinical requirements is the responsibility of the student.

Nursing courses begin during the freshman year allowing early participation in clinical service learning activities. Students will have diverse service learning experiences in a variety of clinical settings.

The number of hours spent in laboratory (including clinical) experience varies from semester to semester and is based on one (1) semester credit being equal to three (3) hours of clinical per week. Approximate time commitment for clinical courses:

200 level – 6 hours/week for one semester  
 300 level Junior year – 15 hours/week during one semester  
 400 level Senior year – 15 hours/week during both semesters

- o Policy Statement on Student Attendance at Clinical

#### **Policy Statement on Student Attendance**

The university reserves the right to require a student to repeat all or any part of a clinical course when, in the student evaluation by the course instructor, the time that the student has been absent from clinical/practicum makes it impossible to evaluate the student's level of achieving the course objectives. Make up time is not guaranteed and is dependent upon faculty and clinical availability. The student is responsible for any costs involved in repeating the course and/or making up time lost.

- o Learning and Study Resources

#### **Learning and Study Resources**

Learning resource centers for student learning and testing are available. The nursing laboratory provides space and resources for students to practice and test their mastery of psychomotor skills used in patient care. The Carroll Library Learning Commons has a range of resources to support the nursing curriculum. The Walter Young Center provides personal counseling and the Study Center offers students opportunities to strengthen academic skills. All students should work closely with their advisor in planning their programs.

- o Fees

#### **Fees**

Undergraduate tuition and other fees apply to nursing students. A program fee of \$750.00 per year is also assessed for proficiency testing, disposable supplies, and equipment maintenance.

- o Licensure Examination

#### **Licensure Examination**

Upon completion of all program requirements, the graduate is eligible to sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN). A graduate must pass this examination to be licensed and practice as a registered nurse (RN).

Although, no nursing program can guarantee success on the NCLEX-RN examination, the Carroll nursing curriculum integrates preparation for the licensure exam through-out the nursing program.

- o **Bachelor of Science in Nursing Major (57 credits)**

Nursing courses build on the knowledge gained from liberal arts background in humanities, fine arts, social sciences, and natural sciences. The overall objective of the program is to provide students with the ability to critically apply knowledge of nursing art and science to improve the quality of health and health care in the communities they serve.

- o Courses in the Major
  - o **NRS100: Health Care and Nursing (4 hours)**  
 AND **-NRS100L: Health Care and Nursing Laboratory**

- NRS230: Health Assessment (4 hours)  
AND -NRS230L: Health Assessment Laboratory
- NRS233: Foundations of Nursing Practice (4 hours)
- NRS234: Foundations - Practicum (2 hours)
- NRS236: Human Pathophysiologic Responses (4 hours)
- NRS300: Critical Inquiry in Nursing Research (2 hours)  
OR -NRS300H: Critical Inquiry in Nursing Research Honors (2 hours)
- NRS310: Mental Health Nursing Care (3 hours)
- NRS312: Family Centered Obstetric Nursing Care (2 hours)
- NRS316: Introduction to Medical Surgical Nursing (4 hours)
- NRS317: Medical Surgical Nursing Practicum (5 hours)
- NRS320: Family Centered Pediatric Nursing Care (2 hours)
- NRS415: Community Health Practicum (2 hours)
- NRS416: Community Health Nursing Care (3 hours)
- NRS417: Advanced Medical Surgical Nursing (3 hours)
- NRS419: Advanced Medical Surgical Practicum (5 hours)
- NRS429: Health Policy and Administration (3 hours)
- NRS431: Capstone (4 hours)
- NRS432: Professional Practice Preparation (1 hours)

Nursing electives in specialty clinical areas may be offered occasionally. If these courses are elected the nursing student may accomplish a nursing major of 62 or 66 credits.

- Required Support Courses
  - ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
  - ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
  - BIO212: Microbiology for the Health Sciences (4 hours)  
AND -BIO212L: Microbiology for the Health Sciences Laboratory
  - CHE101: General Chemistry (4 hours)  
AND -CHE101L: General Chemistry Laboratory
  - CHE102: Biological Chemistry (4 hours)  
AND -CHE102L: Biological Chemistry Laboratory
  - CMP112: Computational Thinking I (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - HSC300: Pharmacology (3 hours)
  - PSY101: Introductory Psychology (4 hours)
  - PSY221: Life-Span Psychology (4 hours)
- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- The Pioneer Core Program
  - Cross-Cultural Component
  - Distribution Component
  - GE1 and GE2 Courses
  - Cross Cultural Development

For a complete list of CCD courses, [click here](#).

- Nursing Four-Year Curriculum Model
- Nursing Honors Four Year Curriculum Model
- Curricular Modifications for the Registered Nurse

Students who are registered nurses through an associate degree program will follow the same degree requirements as all of the Carroll University students with the following curricular modifications to acknowledge the scholarship and competence the Registered Nurse already possesses. Completion students may earn up to 34 nursing credits from previous nursing course work upon successful completion or challenge of NRS 230, Health Assessment and NRS 236, Human Pathophysiologic Responses.

A registered nurse student applying for admission to Carroll University submits a writ- ten plan for completion of the BSN. The plan will comment on his/her self identified professional and academic strengths and weaknesses and further indicate his/her current professional interest area(s) and area of employment. The written statement assists the nurse advisor in helping the student create the most meaningful curricular plan. Registered nurse students are required to select course groupings that lead to some focus of career interest. They should select an appropriate emphasis in the liberal studies to enhance their chosen area of nursing practice. Students will consult with their assigned nursing advisor regarding the most appropriate course selections. The nursing faculty will attempt to work closely with the RN student in focusing their clinical experiences in an area of interest to the RN.

- Major for the Registered Nurse Student (57 Credits)
  - 34 credits earned as previously stated, plus
    - NRS230: Health Assessment (4 hours)  
AND -NRS230L: Health Assessment Laboratory
    - NRS236: Human Pathophysiologic Responses (4 hours)
    - NRS300: Critical Inquiry in Nursing Research (2 hours)
    - NRS310: Mental Health Nursing Care (3 hours)
    - NRS415: Community Health Practicum (2 hours)
    - NRS416: Community Health Nursing Care (3 hours)
    - NRS429: Health Policy and Administration (3 hours)
    - NRS431: Capstone (4 hours)
  - Required Support Courses



- ANP130: Introduction to Human Anatomy and Physiology I (4 hours)  
AND -ANP130L: Intro to Human Anat and Phys I Lab
- ANP140: Introduction to Human Anatomy and Physiology II (4 hours)  
AND -ANP140L: Intro to Human Anat and Phys II Lab
- BIO212: Microbiology for the Health Sciences (4 hours)  
AND -BIO212L: Microbiology for the Health Sciences Laboratory
- CMP112: Computational Thinking I (4 hours)
- CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
- PSY101: Introductory Psychology (4 hours)
- PSY221: Life-Span Psychology (4 hours)

Two semesters of university chemistry

- Bachelor of Science Requirement

#### Bachelor of Science Requirement

The requirements for a Bachelor of Science degree are:

- CMP112 and either CMP113 or CMP114 or
- MAT140 or higher and CSC110 or higher;

**NOTE: EACH MAJOR MAY HAVE SPECIFIC COURSE SEQUENCING REQUIREMENTS. FOR SPECIFIC REQUIREMENTS, SEE "REQUIRED SUPPORT COURSES" WITHIN EACH MAJOR**

- General Education Requirement

For more information on General Education Requirement, [click here](#).

- Distribution Component

For more information on the Distribution Component, [click here](#).

- GE1 and GE2 Courses

Students must complete four GE1 courses: one from each of the four Distribution Areas outside of their major area of study.  
Students must take one GE2 course. The GE2 course chosen, must build upon a discipline taken at the GE1 level (e.g. PSY101 (S1) and PSY 221 (S2)).

**Fine Arts (F1, F2)**

**Humanities (H1, H2)**

**Philosophy/Ethics/Religion (P1, P2)**

**Social Sciences (S1, S2)**

- Cross-Cultural Component

The Cross-Cultural Component is a five-course series through which students explore the study of culture:

Transfer students will register for CCS101 for one credit.

- Cultural Seminar (CCS100)

The Cultural Seminar, which is taken in the first semester, begins the exploration of culture through the study of one's own culture and a different culture. This course develops oral communication skills through critical reading and discussion.

- Writing Seminar (ENG 170)

The Writing Seminar is taken during the first or second semester, includes cross-cultural readings, and develops foundational writing skills.

- Cross-Cultural Development (CCD)

The Cross-Cultural Designation course is taken after the Cultural and Writing Seminars. This course satisfies a Distribution requirement, continues development of writing skills, and includes significant cross-cultural themes as preparation for the Cross-Cultural Experience.

- Cross-Cultural Experience (CCE)

The Cross-Cultural Experience course is taken concurrently or after the Cross-Cultural Development course. In an off-campus setting, students apply knowledge learned in the previous three courses through interactions with cultures other than their own. (CCS300 for 2 credits, NCEP courses for 4 credits, or study abroad for 12+ credits)

[For more information and course listings, click here](#)

- Global Perspectives Colloquium (CCS400)

In the Global Perspectives Colloquium, advanced students (usually seniors) from multiple disciplines engage in critical reading and discussion. Students reflect on their distribution courses and cross-cultural experiences while also refining their writing skills.

- Courses offered by the program:
  - NRS100: Health Care and Nursing (4 hours)
  - NRS100L: Health Care and Nursing Laboratory
  - NRS230: Health Assessment (4 hours)
  - NRS230L: Health Assessment Laboratory

- o NRS233: Foundations of Nursing Practice (4 hours)
- o NRS234: Foundations - Practicum (2 hours)
- o NRS236: Human Pathophysiologic Responses (4 hours)
- o NRS300: Critical Inquiry in Nursing Research (2 hours)
- o NRS300H: Critical Inquiry in Nursing Research Honors (2 hours)
- o NRS310: Mental Health Nursing Care (3 hours)
- o NRS312: Family Centered Obstetric Nursing Care (2 hours)
- o NRS316: Introduction to Medical Surgical Nursing (4 hours)
- o NRS317: Medical Surgical Nursing Practicum (5 hours)
- o NRS320: Family Centered Pediatric Nursing Care (2 hours)
- o NRS391: Special Topics in Nursing (2-4 hours)
- o NRS415: Community Health Practicum (2 hours)
- o NRS416: Community Health Nursing Care (3 hours)
- o NRS417: Advanced Medical Surgical Nursing (3 hours)
- o NRS419: Advanced Medical Surgical Practicum (5 hours)
- o NRS429: Health Policy and Administration (3 hours)
- o NRS431: Capstone (4 hours)
- o NRS432: Professional Practice Preparation (1 hours)
- o NRS498: Independent Study in Nursing (1 TO 4 hours)

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**Bachelor of Science in Nursing Major (57 credits)**

Courses in the Major

Required Support Courses

Bachelor of Science Requirement

The Pioneer Core Program

[Nursing Four-Year Curriculum Model](#)

Nursing Honors Four Year Curriculum Model

## Nursing Four-Year Curriculum Model

COHORT A*	Credits	COHORT B*	Credits
<b>Fall Semester Freshman</b>		<b>Fall Semester Freshman</b>	
CCS 100	4	CCS 100	4
ANP 130	4	ANP 130	4
CHE 101	4	CHE 101	4
NRS 100	4	ENG 170	4
	<b>16</b>		<b>16</b>
<b>Spring Semester Freshman</b>		<b>Spring Semester Freshman</b>	
ENG 170	4	PSY 101	4
ANP 140	4	ANP 140	4
CHE 102	4	CHE 102	4
NRS 230	4	NRS 100	4
	<b>16</b>		<b>16</b>
<b>Fall Semester Sophomore</b>		<b>Fall Semester Sophomore</b>	
BIO 212	4	GE 1 (P1, H1, F1)	4
NRS 233	4	PSY 221 (GE2)	4
NRS 234	2	NRS 230	4
PSY 101	4	CMP 112	4
Elective	4		
	<b>18</b>		<b>16</b>
<b>Spring Semester Sophomore</b>		<b>Spring Semester Sophomore</b>	
NRS 236	4	NRS 233	4
PSY 221 (GE2)	4	NRS 234	2
CMP 112	4	NRS 236	4
GE 1 (P1, H1, F1) &/or CCE	4	BIO 212	4
	<b>16</b>	CMP 114	4
			<b>18</b>
<b>Fall Semester Junior</b>		<b>Fall Semester Junior</b>	
NRS 310	3	HSC 300	3
NRS 320	2	NRS 300	2
GE 1 (F1, P1, or H1) or CCE	4	NRS 310	3
CMP 114	4	NRS 312	2
HSC 300	3	CCE (Fall or Spring)	2
	<b>16</b>	GE 1 (F1, P1, or H1)	4
			<b>16</b>
<b>Spring Semester Junior</b>		<b>Spring Semester Junior</b>	
NRS 312	2	NRS 316	4
NRS 316	4	NRS 317	5
NRS 317	5	NRS 320	2
NRS 300	2	Elective or CCE	4
GE 1 (F1, P1, H1)	4		
	<b>17</b>		<b>15</b>
<b>Fall Semester Senior</b>		<b>Fall Semester Senior</b>	
NRS 417	3	NRS 417	3
NRS 419	5	NRS 419	5
NRS 416	3	NRS 416	3
NRS 415	2	NRS 415	2
CCE or GE 1 (P1, H1, F1)	2	GE 1 (P1, H1, F1)	4
	<b>15</b>		<b>17</b>
<b>Spring Semester Senior</b>		<b>Spring Semester Senior</b>	
NRS 429	3	NRS 429	3
NRS 431	4	NRS 431	4
NRS 432	1	NRS 432	1
Elective	4	Elective	4
CCS 400	2	CCS 400	2
	<b>14</b>		<b>14</b>
<b>TOTAL CREDITS</b>	<b>128</b>	<b>TOTAL CREDITS</b>	<b>128</b>

\*Students are placed in Cohort A or B when they are admitted into the nursing program.

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**Bachelor of Science in Nursing Major (57 credits)**

Courses in the Major

Required Support Courses

Bachelor of Science Requirement

The Pioneer Core Program

Nursing Four-Year Curriculum Model

[Nursing Honors Four Year Curriculum Model](#)

## Nursing Honors Four Year Curriculum Model

COHORT A*	Credits
<b>Fall Semester - First Year</b>	
CCS 100H	4
ANP 130	4
CHE 101	4
NRS 100	4
	<u>16</u>
<b>Spring Semester - First Year</b>	
ENG 170H	4
ANP 140	4
CHE 102	4
NRS 230	4
	<u>16</u>
<b>Fall Semester - Second Year</b>	
BIO 212	4
NRS 233	4
NRS 234	2
PSY 101	4
CMP112H	4
	<u>18</u>
<b>Spring Semester - Second Year</b>	
NRS 236	4
PSY 221/GE2	4
CMP114H	4
GE 1 (P1, H1, F1) or Elective or CCE	4
	<u>16</u>
<b>Fall Semester - Third Year</b>	
NRS 310	3
NRS 320	2
CCE or Ge 1 (P1, H1, F1)	2
HSC 300	3
Elective	4
	<u>14</u>
<b>Spring Semester - Third Year</b>	
NRS 312	2
NRS 316	4
NRS 317	5
NRS 300H	2
GE 1 (PHI 206H odd years)	4
	<u>17</u>
<b>Fall Semester Senior</b>	
NRS 417	3
NRS 419	5
NRS 416	3
NRS 415	2
GE 1 (P1, H1, F1) or CCE	4
	<u>17</u>
<b>Spring Semester Senior</b>	
NRS 429	3
NRS 431	4
NRS 432	1
CCS 400	2
Elective	4
	<u>14</u>
<b>TOTAL CREDITS</b>	<b><u>128</u></b>

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**College of Health Sciences**

Health and Medicine

Human Movement Sciences

Nursing

[Physical Therapy](#)

» Undergraduate

**Department: Physical Therapy**

Chairperson: Sara Deprey

Room: PT112 A      Email: [sdeprey@carrollu.edu](mailto:sdeprey@carrollu.edu)

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**Programs**

[Undergraduate](#)

[Pre-Physical Therapy](#)

**Physical Therapy****Undergraduate**

» Pre-Physical Therapy

**Program: Undergraduate**College of Health Sciences  
Department: Department of Physical Therapy• **Pre-Physical Therapy**

<b>David Bazett-Jones</b>	<b>Assistant Professor of Physical Therapy</b>
<b>Sara M. Deprey</b>	<b>Associate Professor of Physical Therapy, Chair</b>
<b>Mark R. Erickson</b>	<b>Clinical Associate Professor of Physical Therapy</b>
<b>Vickie Ericson</b>	<b>Instructional Faculty of Physical Therapy</b>
<b>Ashley B Knuth</b>	<b>Clinical Assistant Professor of Physical Therapy</b>
<b>Karma M Lapacek</b>	<b>Instructional Faculty of Physical Therapy</b>
<b>Amy E. McQuade</b>	<b>Clinical Assistant Professor of Physical Therapy</b>
<b>Sara E North</b>	<b>Clinical Assistant Professor of Physical Therapy</b>
<b>Thomas G. Pahnke</b>	<b>Clinical Associate Professor of Physical Therapy and Athletic Training</b>
<b>Kathleen A. Shields</b>	<b>Clinical Assistant Professor of Physical Therapy</b>
<b>Jeffrey P. Sischo</b>	<b>Clinical Assistant Professor of Physical Therapy</b>
<b>Susan R. Wilbanks</b>	<b>Assistant Professor of Physical Therapy</b>

The mission of the Doctor of Physical Therapy Department at Carroll University is to educate students to become licensed physical therapists who are prepared to provide compassionate, respectful care in a dynamic health care environment and contribute to the profession and community. Education is grounded in evidence-based practice that includes consideration of diverse patient/client values, relevant research, and clinical experiential reasoning.

The Entry-level Doctor of Physical Therapy Program is fully accredited by the Higher Learning Commission of the North Central Association. The Doctor of Physical Therapy Program at Carroll University is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; email: [accreditation@apta.org](mailto:accreditation@apta.org); website: <http://www.capteonline.org>.

**Curriculum**

The Carroll University Entry-level Physical Therapy Program consists of a six-year course of study, divided into pre-professional and professional phases.

During the pre-professional phase (freshman, sophomore and junior years), students complete their undergraduate course work while fulfilling the requirements to enter the professional phase. Pre-physical therapy education at Carroll University is grounded in the humanities and the natural, behavioral and social sciences. For pre-Physical Therapy students pursuing an undergraduate degree at Carroll University, a Bachelor of Science degree in Psychology, Exercise Science, Biology, Health Care Administration, Business Administration, Communications, Public Health, History or Spanish is typically used to complete the Physical Therapy Program in six years.

The professional phase begins the senior year, lasts eight semesters, and is subdivided into two phases, Phase I and Phase II. During Phase I of the professional program, fall and spring terms of senior year, course work in physical therapy begins at the 400 level. The 400 level courses present the basic, behavioral, professional, and applied science foundations that are subsequently applied in the 500 and 600 level courses taken during Phase II of the professional program. Bachelor's degrees are awarded at the conclusion of the senior year to those individuals satisfying all Carroll undergraduate requirements.

Immediately following Commencement, students begin the graduate segment of Phase II course work within the professional program. Here the 500 and 600 level courses in physical therapy are offered in a developmental sequence that integrates knowledge throughout the student's professional education. Upon successful completion of Phase I and II of the professional curriculum, an Entry-level Doctor of Physical Therapy degree is awarded. Graduates participate in the University's Commencement ceremony in May of year six.

**Admission**

See the **Admission** section of this catalog.

**Academic Progression**

The **Academic Progression** standards for the Pre-Physical Therapy Program are presented in the Academic Program and Policies section of this catalog.

NOTE: See the Carroll University Graduate Catalog for descriptions of Physical Therapy (PTH) courses in Phase II of the Entry-level Physical Therapy Program.

- **Pre-Physical Therapy Majors (98 credits)**

Athletic Training (Bachelor of Science)

Biology Major (Bachelor of Science)

Business Administration (Bachelor of Science)

Communication Major (Bachelor of Science)

Exercise Science Major (Bachelor of Science)

Healthcare Administration (Bachelor of Science)

History (Bachelor of Arts)

Public Health (Bachelor of Science)

Psychology Major (Bachelor of Science)

Spanish (Bachelor of Arts)

**Optional Minors:** Biology, Business, Chemistry, Psychology, Public Health, Sociology

- Professional Program

Senior Year for Direct Admission and Transfer Students (30 credits).

- Phase I

- Fall Semester 15 credits

- PTH400: Foundations of Professional Practice (3 hours)
- PTH401: Statistical and Research Methods (3 hours)
- PTH404: Biomechanics (3 hours)
- AND -PTH404L: Biomechanics Laboratory
- PTH406: Exercise Physiology (3 hours)
- AND -PTH406L: Exercise Physiology Laboratory
- PTH408: Introduction to Patient Management (3 hours)
- AND -PTH408L: Introduction to Patient Management Laboratory

- Spring Semester 15 credits

- PTH405: Neuroscience (3 hours)
- PTH411: Foundations of Clinical Research (2 hours)
- PTH412: Tests & Measures (3 hours)
- PTH414: Advanced Kinesiology (3 hours)
- AND -PTH414L: Advanced Kinesiology Laboratory
- PTH416: Therapeutic Exercise (4 hours)
- AND -PTH416L: Therapeutic Exercise Lab

- Summary of Credits

- Pre-Professional Phase 98 credits
- Professional Phase 1 30 credits

Pre-Physical Therapy Emphasis with undergraduate major 128 credits

See the Carroll University Graduate Catalog for descriptions of Physical Therapy (PTH) courses in Phase II of the Entry-level Physical Therapy Program.

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**Academics**

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**Enrichment Programs**

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## Intensive English Language Program (English as a Second Language - ESL)

Carroll University offers an Intensive English Program designed to help non-native English speakers increase their English language skills. The goal of the program is to prepare students with the oral and written language skills they need to be successful in an American university. The curriculum is designed for students at all levels of English language proficiency.

### Learning Outcomes for IEL

Students in Carroll University's intensive English program can expect to:

1. Speak English more fluently in formal and informal settings;
2. Build listening and comprehension skills, enabling them to better understand and participate in university level lectures;
3. Write effective academic papers and essays;
4. Refine oral communication skills and pronunciation in order to be better understood;
5. Actively practice using English appropriately in various social contexts.

The Intensive English program at Carroll University is flexible in nature, assessing the needs of the international students we serve, and placing them accordingly. Students entering the program may be placed in a full time intensive English course of study (20 instructional hours per week), or placed in a combination of university level academic courses, in conjunction with some intensive English language study.

#### 121. Listening and Speaking I (Beginning Level)

This course aims to increase the spoken fluency, conversational vocabulary and listening comprehension of emerging English language learners. Students will be given opportunities hearing English used in natural conversations in a variety of contexts. Students will also practice speaking English in structured and semi-structured situations, with an emphasis on providing students with a grammatical and communicative framework for managing everyday functions, such as asking and responding to questions and directions.

#### 122. Reading and Writing I (Beginning Level)

This course is designed for emerging English language learners to learn strategies such as skimming, scanning, and prediction using context clues to improve their reading comprehension in English. In addition, there will be a component on grammar to improve their writing skills.

#### 123. ESL Special Topics (Beginning Level)

This course will engage beginning English language learners on a variety of topics, which may include: pronunciation, English for special purposes, cultural diversity in the U.S., current events and media.

#### 221. Listening and Speaking II (Intermediate Level):

This course will focus on developing students' English communication skills appropriate for an academic environment. Students will develop their skills in creating presentations and participating in class discussions, as well as engage in interactive activities that will strengthen their pronunciation skills in English.

#### 222. Reading and Writing II (Intermediate Level):

This course is designed for intermediate English language learners to build academic vocabulary, and develop more advanced reading comprehension skills. A grammar component will also be integrated to help students develop well articulated paragraphs with topic sentences and logical conclusions in their writing. In addition, some attention will be given to strengthen students' note taking skills.

#### 321. Advanced Integrated Communications (Advanced Level):

In this course, students will practice communication in various settings and for a wide range of professional and academic purposes, integrating all the language skills, with a special emphasis on speaking and listening in an academic environment. The course will provide a support framework for the English language learner who is ready to be immersed in full-time university academic work. Topics include: oral presentations skills, group work, multimedia activities involving listening and speaking, and higher level pronunciation work.

#### 322. Reading and Writing III (Advanced Level):

This course is designed for advanced English language learners to prepare them for university academic reading, writing and research. Special emphasis will be placed on writing well-formed paragraphs and longer essays with clear topic sentences, proper research citation, and higher level academic reading strategies.

#### 223/323. Special Topics (Intermediate/Advanced Level):

This course will engage English language learners in stimulating conversation and writing practice on a variety of topics, which may include: English for professional contexts, cultural diversity in the U.S., current events and media.

**Enrichment Programs**

Intensive English Language Program (English as a Second Language - ESL)

**Honors**

» A List of Honors Courses  
Study Abroad and Domestic Study Away  
Cross Cultural Experiences

**Honors**

**Lilly Goren** Professor of Political Science, Interim Director

The Honors Program at Carroll University encourages motivated and talented students to pursue a breadth and depth of knowledge within an enriched curriculum. The program creates an environment designed to challenge students' perspectives and foster intellectual development.

**Learning Outcomes for the Honors Program**

1. Students will expand the breadth and depth of their knowledge through special readings, interdisciplinary approaches, and current research.
2. Students will be able to address issues and problems in an open-minded, analytical and creative way. They will learn to make connections between disparate subjects, to approach topics from a variety of perspectives, and to relate their coursework to contemporary issues.
3. Students will demonstrate the ability to do independent research, or other creative work, while working with faculty mentors and similarly motivated students.

Students admitted to the Honors Program upon matriculation to the University are expected to complete a six course curriculum. These include:

CCS 100H, Cultural Seminar  
ENG 170H, Writing Seminar

**Four additional honors courses, which may be:**

Courses designated as honors (H) on the timetable.  
One honors contract course (arranged with the instructor on an individual basis).  
A Pioneer Scholar Experience.  
A course completed on a semester or year study abroad program.  
Honors courses completed at a previous institution.

Students who enter the Honors Program after their first year must complete a five course curriculum.

To graduate as a member of the Honors Program, a student must attain an overall grade point average of at least 3.40 with grades of B or better in each honors course. A student earning less than a B in any honors course will be removed from the program. For more information, please contact the Carroll University Scholars Center.

- A List of Honors Courses
  - CCS100H: Honors - Cultural Seminar (4 hours)
  - CMP112H: Honors Computational Thinking I (4 hours)
  - CMP114H: Honors Computational Thinking II- Statistical Analysis Emphasis (4 hours)
  - COM290H: Intro to Health Communication (4 hours)
  - ENG170H: Writing Seminar (4 hours)
  - ENG255H: Postcolonial Literature and Theory (4 hours)
  - ENV120H: Conservation and Environmental Improvement (4 hours)
  - HIS106H: America Since 1877 (4 hours)
  - HIS224H: The World Since 1945 (4 hours)
  - HIS225H: Medieval Europe, China, and the Islamic Crescent (4 hours)
  - HON291H: Topics in Honors - Fine Arts (4 hours)
  - HON292H: Topics in Honors - Humanities (4 hours)
  - HON293H: Topics in Honors - Natural Sciences (4 hours)
  - HON294H: Topics in Honors - Philosophy, Ethics, Religion (4 hours)
  - HON295H: Topics in Honors-Social Science (4 hours)
  - NRS300H: Critical Inquiry in Nursing Research Honors (2 hours)
  - POL210H: Origins of Democratic Thinking (4 hours)
  - PHI206H: Ethics (4 hours)
  - PHY105H: Astronomy (4 hours)
  - PHY105HL: Astronomy lab
  - SOC102H: Sociology of Social Problems (4 hours)

**Enrichment Programs**

Intensive English Language Program (English as a Second Language - ESL)

Honors

[Study Abroad and Domestic Study Away](#)

Cross Cultural Experiences

**Study Abroad and Domestic Study Away**

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International education programs are an integral part of Carroll's academic offerings. The Office of International Education (OIE), located in A. Paul Jones Scholars Hall, directs semester, summer, winter and academic-year study abroad/away programs. **Unless noted otherwise, all study abroad/away programs listed in this catalog meet the Cross-Cultural Experiences (CCE) requirement of the Pioneer Core.**

**Study Abroad Programs**

Students who are in good academic standing and have completed at least 16 Carroll University credits at the time of participation are eligible to apply to enroll in a study abroad program. Students should note that each study abroad program may have its own requirements for acceptance and are encouraged to review the individual program's materials for additional expectations.

Approved study abroad students remain enrolled at the university during the semester or academic-year study abroad period. Applications for study abroad are due at least one semester prior to the semester in which the student intends to study; however, students are advised to apply for study abroad a full year ahead of their intended study. Details about the programs, eligibility, applications and costs are available on the [Carroll University CCE Web site](#) or from OIE.

Study abroad opportunities include three types of programs: exchange, affiliated and unaffiliated.

**1. Exchange Programs**

Exchange programs are programs in which the school abroad sends us their students and we, in turn, send our students for a semester or academic year. Students participating in semester and year exchange programs receive their regular financial aid package, including institutional scholarships. They pay their Carroll University tuition. In most cases, room and board are paid directly to the host institution. Students are assessed a \$350 per semester or \$150 per winter or summer study abroad/away fee by Carroll University. Note that the list below is subject to change. Visit the [Carroll University CCE website](#) for the most up-to-date list.

**Austria**

**Management Center Innsbruck (MCI)** - MCI, in beautiful Innsbruck, Austria, has a strong international and business focus on academics and offers classes taught not only in German, but English and other languages. The special exchange program classes offered in English are available during the spring semester only.

**Belgium**

**Institut des Hautes Etudes des Communications Sociales (IHECS)** - IHECS has approximately 2,000 students and is located in the center of the city of Brussels, Belgium. The institution focuses on the fields of Communications and Journalism with an emphasis on practical application.

**France**

**Institut d'Etudes Politiques de Bordeaux (IEP)** - IEP enrolls 1,300 students who study history, political science, economics and law. Visiting international students may choose courses from any discipline. All IEP courses are taught in French; hence, the student needs to be approved by the modern languages faculty, as well as by the GCCE Committee and/or OIE.

**Burgundy School of Business (BSB)** - BSB, located in Dijon, France, is an international business school that attracts students from all over the world. It provides students with an opportunity to study business in a town and region known for its cultural and historical contributions to Europe. BSB courses that are taught in English include business law, economics, marketing, entrepreneurship, sociology, psychology, finance and market research.

**Germany**

**Philippe-Universität Marburg** - Students may take courses in German or English at Philippe-Universität Marburg. The university has 17 different departments offering a broad range of course opportunities for students. This 500-year old institution enrolls 20,000 students, 12 percent from countries other than Germany. The university is located in the historic city of Marburg in the state of Hessen.

**Hong Kong**

**Hong Kong Baptist University (HKBU)** - Located in Kowloon, the heart of Hong Kong, HKBU is a vibrant campus of more than 5000 undergraduate students. The university offers a wide-range of courses taught in English and Chinese, including Arts, Business, Communication, Science, and Social Sciences. Students may enroll for either semester or for the academic year.

**Lingnan University** - Known as "The Liberal Arts University of Hong Kong", Lingnan is located on a small, beautiful campus in the New Territories. Offering strong courses in the Humanities, Arts, Business and Sciences, the university has a "whole-person" approach to education and offers many co-curricular activities, including many service learning opportunities.

**Mexico**

**Universidad De La Salle Bajío-León** - Located in León, ULS is a private school that offers a wide range of coursework, including psychology, education, communication, business and information technology. Carroll students may take courses in any discipline. All ULS courses are taught in Spanish; therefore Carroll students must receive a recommendation from the Spanish faculty.

**Netherlands**

**University of Applied Sciences Utrecht** - Located in the university city of Utrecht, the University of Applied Sciences-Utrecht has over 39,000 students and focuses on innovation and professionalization in vocational practice (through

high-value knowledge and research) and on the personal development of talent. Courses are available in English in the areas of Economics and Management, Communication and Journalism, Education, Health Care, Law, Social Work, and Technology.

### South Korea

**Ewha University** - Located in Seoul, with more than 120 years of rich history, Ewha is Korea's oldest women's university. Carroll students, both men and women, can study in English at Ewha. More than 20 percent of undergraduate courses are taught in English. These include art history, Asian studies, business, ceramics, economics, international studies, Korean studies, literature, media studies, politics, psychology, religion and women's studies. Carroll students are housed on the beautiful Ewha campus in the new International House dormitory.

### United Kingdom

**University of Hull** - Hull is located about 3 ½ hours from London. The university has 14,000 students and is noted for its excellence in teaching and research. Study abroad students can choose coursework from many disciplines, including the humanities, social sciences, sciences, business, and the arts.

**Irish American Scholars Program** - The Irish American Scholars program allows Carroll University students to participate in semester and academic year exchange programs at the following Northern Ireland institutions: Queens University Belfast, University of Ulster, Belfast Metropolitan College, Stranmillis University College, and St. Mary's University College. Up to three Carroll University students are selected for this opportunity each year.

### Wales

**Aberystwyth University** - Founded in 1872, Aberystwyth was the first university established in Wales. UWA is on the coast in central Wales and has more than 7,000 students. All courses are taught in English. Aberystwyth has excellent academic and cultural opportunities and students can take courses in any discipline. Additional scholarships may be available for study in Wales.

## 2. Affiliated Programs

Affiliated programs are universities or study programs determined by Carroll to meet our academic standards. Students remain a Carroll University student while studying abroad on an affiliate program. Students participating in affiliated programs may be eligible for federal, state and outside funding as applicable. Institutional aid is generally not available for affiliated programs. Students pay program tuition to Carroll University which, in turn, remits the monies to the program provider. Room and board are paid directly to the host institution. Students are assessed a \$350 per semester or \$150 per winter or summer study abroad/away fee by Carroll University. Note that the list below is subject to change. Visit the [Carroll University CCE Website](#) for the most up-to-date list of partner programs.

### Australia

**Macquarie University-Sydney** - Macquarie has 24,000 students, including 4,000 international students, and offers a wide range of courses, including humanities, social sciences, biology, psychology and business.

**La Trobe University-Melbourne** - Located in the cultural capital of Australia, La Trobe hosts 17,000 students from over 90 countries. Offering a wide variety of programs, La Trobe is especially strong in business, media studies, math, science, and education.

### China

**American Center of Chengdu (g-MEO)** - In partnership with other U.S. institutions, the American Center of Chengdu allows students to take classes in an American setting while living and studying on a Chinese campus. Located in the capital of Sichuan Province in China's Southwest, the American Center of Chengdu welcomes students from the U.S. along with students from Sichuan University. Courses include Criminal Justice, International Business, Information Technology, Political Science, Humanities, Social Sciences, Trade and Economics.

### Ireland

**National University of Ireland-Galway** - NUI Galway has 13,000 students and nearly 1,000 international students attend the university each year. Because of its dynamic and pioneering role in theater, arts and culture, Galway has earned the title Cultural Capital of Ireland.

**National University of Ireland-Maynooth** - NUI Maynooth is an innovative university of 5,500 students from every county in Ireland, as well as an increasing number of international students. Situated 25 km west of Dublin, it is located in Ireland's only university town, Maynooth.

### Italy

**ACM - Florence: Arts, Humanities, & Culture** - Associated Colleges of the Midwest offers a fall semester program in Florence, Italy. Students choose from [course offerings](#) in Renaissance art history, Italian culture, and studio art. The program begins in late August with an academic orientation comprised of a four-week intensive Italian language course, lectures on aspects of contemporary Italy, and introductory meetings with background readings for the elective classes. With the exception of the Italian language course, all courses are conducted in English.

**ACM - The London & Florence: Arts in Context** - This program offers students a singular opportunity to live and study in two of the world's most important and exciting cultural capitals. This interdisciplinary program focuses on the arts that have made these two cities central to the heritage of the West: the visual arts, on the one hand, in architecture, painting, sculpture; and the literary arts, on the other, in theatre and literature. Three program lengths are offered: 18 week, 15 week and 10 week.

**Florence University of the Arts (FUA)** - In affiliation with SAI Programs, FUA offers students the opportunity to study in one of the leading educational and cultural centers of Europe. FUA is located in the historic center of Florence and offers English-taught courses in areas such as business, economics, liberal arts, environmental studies, human services, natural sciences, mathematics, fine and visual arts.

**John Cabot University** - Through program provider SAI Programs, students can study a wide variety of programs in the heart of Rome. Courses are offered in English include Arts and Humanities, French, Italian, and Latin languages, Sciences, and Social Sciences.

### New Zealand

**University of Canterbury** - This university is located in Christchurch, New Zealand. This is a larger city on the south

island, which is not as heavily populated as the north island. The school is strong in the areas of biology, chemistry, business, economics, environmental science, geology, mathematics, political science, and computer science.

### United Kingdom

**ACM - London & Florence: Arts in Context** - This program offers students a singular opportunity to live and study in two of the world's most important and exciting cultural capitals. This interdisciplinary program focuses on the arts that have made these two cities central to the heritage of the West: the visual arts, on the one hand, in architecture, painting, sculpture; and the literary arts, on the other, in theatre and literature. Two program lengths that include London as a study location are offered: 18 week and 15 week.

**Bader International Study Centre (Queen's University site)** - Based at a castle in the English countryside south of London, students take internationally themed courses combined with field studies throughout England and Europe. The program emphasizes intercultural learning, offering a flexible choice of Queen's accredited courses — ranging from the Humanities and International Business, to Social Sciences and Nursing.

**University of Lancaster** - Lancaster is in the northwest of England, 250 miles from London. It is a preferred location to study environmental and natural sciences. Other coursework for international students includes applied sciences, arts, humanities, business and social sciences.

**Regents University London** - Regent's American College London (RACL) is the official London campus of Webster University, St. Louis, USA. Webster RACL offers an internationally-focused, stimulating and supportive educational experience, with a wide choice of majors. Located in Regent's Park in the center of London students are able to explore the city through their curricular and co-curricular offerings.

**University of Stirling-Scotland** - The highly rated University of Stirling offers international students the chance to receive a quality Scottish education. The university is proud of its international community, which comprises 12 to 15 percent of the student population.

### Worldwide

**AIFS Study Abroad** - AIFS is recognized as a leading provider of study abroad programs. Since 1964, over 1.5 million students have traveled abroad with AIFS. AIFS offers a wide range of unique programs in Asia, Australia, Europe, South Africa and the Americas. Most AIFS campuses offer courses in English or in foreign languages from beginner to advanced levels, so you students do not have to know a foreign language to study abroad.

**CEA Global Education** - CEA Global Education was founded in 1997 and offers programs in Argentina, Brazil, Chile, China, Costa Rica, Czech Republic, England, France, Germany, Ireland, Italy, South Africa, and Spain. The mission of CEA Global Education is to create and facilitate opportunities for academic achievement, global competence and personal growth through quality international education. Students may study at universities abroad and may participate in internship placements, depending on the location.

**GlobaLinks Learning Abroad/ISA** - With over 20 years of experience working within the field of international education serving both students, GlobaLinks offers a wide range of study abroad and internship opportunities throughout Australia, New Zealand, Fiji, Asia, and Europe.

**ProWorld** - ProWorld offers intern, volunteer and internship experiences for individuals looking to make a difference abroad while gaining the cross-cultural skills and knowledge to succeed as global citizens. Programs are offered in Belize, Peru, and Mexico.

### Up With People

Recognized as one of the preeminent global educational programs in the world, Up with People achieves its mission through a unique experience for young adults that combines 22 weeks of international travel and intercultural living, community service and the universal language of music. Students are able to earn 16 credits selected from a pre-determined list of courses.

**Webster University** - Carroll students may study through the Webster University network of schools. Study programs are available in Austria, China, Japan, Netherlands, Switzerland, Thailand and the United Kingdom.

### 3. Unaffiliated Programs

Unaffiliated programs are programs that students independently identify as a preferred study abroad option. Students sometimes want a study abroad experience that is not available through our Exchange or Affiliated Programs. Students need approval for a unaffiliated program in order to remain a Carroll University student while abroad. Students participating in unaffiliated programs may be eligible for federal, state and outside funding as applicable. Institutional aid is generally not available for unaffiliated programs. Students pay all tuition and fees directly to the host institution. Students are assessed a \$350 per semester or \$150 per winter or summer study abroad/away fee by Carroll University. Visit the [Carroll University CCE Website](#) for more information on unaffiliated study abroad programs.

Examples of unaffiliated programs Carroll University students have participated in the past:

**Semester at Sea** - Semester at Sea is a multiple country study abroad program open to students of all majors emphasizing comparative academic examination, hands-on field experiences, and meaningful engagement in the global community. A wide variety of coursework from 20-25 disciplines is integrated with relevant field studies in up to a dozen countries, allowing for a comparative study abroad experience that is truly global.

**School for Field Studies** - SFS creates transformative study abroad experiences through field-based learning and research. Their educational programs explore the human and ecological dimensions of the complex environmental problems faced by local partners, contributing to sustainable solutions in the places where they live and work. The SFS community is part of a growing network of individuals and institutions committed to environmental stewardship.

**SIT Study Abroad** - A pioneer in experiential, field-based study abroad, SIT offers semester, summer, and academic year programs for undergraduate students in Africa, Asia and the Pacific, Europe, Latin America, and the Middle East, as well as comparative programs in multiple locations.

**Enrichment Programs**

Intensive English Language Program (English as a Second Language - ESL)

Honors

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**Cross Cultural Experiences**

**Ellen Barclay**

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**Cross-Cultural Experience**

The Cross-Cultural Experience is a signature component of Carroll's Pioneer Core curriculum, which is characterized by an integrating theme of culture and a requirement for domestic or international Cross-Cultural immersion. This experience challenges students to apply classroom-based examinations of culture and to interact with cultures other than their own in an off-campus setting. For a link to the CCE site [click here](#).

The Cross Cultural Experience has three parts: preparation, immersion and reflection. Research has shown that all three parts are required to ensure that students get the most from the Cross Cultural Experience. The immersion portion requires at least 60 hours of meaningful internation with a culture other than the student's own. Students may choose from a variety of choices to fulfill the CCE requirement. Options include local, domestic and international experiences:

- International study abroad, for a summer, winter, semester, or academic year program
- CCS 300 (2 credits) or NCE course (4 credits)
- Discipline-specific courses approved for CCE credit
- Internships, practicums and clinical experiences approved for CCE credit

**Study Abroad Cross-Cultural Experiences (CCEs)**

Students in good academic standing with at least 16 completed Carroll University credits at the time of participation may apply for approval to enroll in a study abroad program. Approved study abroad students remain enrolled at the university during the semester or academic-year study abroad period. Applications for study abroad are due at least one semester prior to the semester in which the student intends to study; however, students are advised to apply for study abroad a full year ahead of their intended study.

A listing of the many and varied study abroad opportunities is available on the "Study Abroad" link of this site or on the Carroll University CCE webpage.

**CCS300**

CCS 300 courses are typically short-term travel courses led by Carroll faculty. CCS 300 courses carry two academic credits and generally take students off-campus during the Winter Term, in the summer or during spring break. Prior to any travel, students will participate in classroom preparation with some academic content. Students also will engage in post-experience reflection activities. CCS300 courses carry two academic credits and are taught by Carroll University instructors. In most cases, the instructor travels with the students and continues to teach the course while at the immersion site.

**Eligibility:** Students interested in a CCS 300 course must submit a CCE application through the CCE website and have a minimum of 16 completed credit hours from Carroll University at the time of participation. Enrollment is determined by the office of General Education which reviews student records to ensure that the applicant is in good standing related to both academics and conduct. Students must have completed CCS 100 or CCS 101 and must have completed or be concurrently taking their GE CCD course.

**Fees** for CCS 300 courses vary according to the program. Additional information for CCE courses is available on the Carroll University CCE Webpage or from A. Paul Jones Scholars Hall.

**Course Offerings:** CCS 300 course offerings are typically announced each spring for the next academic year. Up to date information can be found on the CCE website.

**New Cultural Experience Programs (NCE)**

NCE courses carry four academic credits and are taught by Carroll University instructors. Each course has a specific academic focus along with a particular emphasis on understanding new cultures. Prior to travel, the students spend a semester in academic preparation.

**Eligibility:** Students interested in an NCE course must submit a CCE application and have a minimum of 16 completed credit hours from Carroll University at the time of participation. Enrollment is determined by the office of General Education which reviews student records to ensure that the applicant is in good standing related to both academics and conduct. Students must have completed CCS 100 or CCS 101 and must have completed or be concurrently taking their GE CCD course.

**Fees** for NCEP courses vary according to the program. Additional information for CCE courses is available on the Carroll University CCE Webpage or from A. Paul Jones Scholars Hall.



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Business, Accounting, and  
Economics

College of Arts and Sciences

College of Health Sciences

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**Department and Major Codes**

Major Code	Major	Department Code	Department	College Code	College
ACC	Accounting	DPAC	Department of Accounting	CBU	Department of Business, Accounting & Economics
ACS	Actuarial Sciences	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
ANB	Animal Behavior	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
PHY/GEN	Applied Physics & Engineering Dual Degree	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
ART	Art & Photography	DPVP	Department of Visual & Performing Arts	CAS	College of Arts and Sciences
ATR	Athletic Training	DPMS	Department of Human Movement Sciences	CHS	College of Health Sciences
BIO	Biology	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
BUS	Business Administration	DPBE	Department of Business & Economics	CBU	Department of Business, Accounting & Economics
CHE & BIC	Chemistry and Biochemistry	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
COM	Communication	DPCS	Department of Communication and Sociology	CAS	College of Arts and Sciences
CMP	Computational Science	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
CSC	Computer Science and Information Technology	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
CSC	Computer Science Dual Degree Program	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
EDU	Education	DPED	Department of Education	CAS	College of Arts and Sciences
ENG	English	DPML	Department of Modern Languages	CAS	College of Arts and Sciences
ENV	Environmental Science	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
ESC	Exercise Science	DPMS	Department of Human Movement Sciences	CHS	College of Health Sciences
POL	Global Studies	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences

## Department and Major Codes

GRC	Graphic Communication	DPVP	Department of Visual & Performing Arts	CAS	College of Arts and Sciences
HCA	Health Care Administration	DPBE	Department of Business and Economics	CBU	Department of Business, Accounting and Economics
HSC	Health Science	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
MLS	Medical Lab Sciences	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
HIS	History	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences
MAR	Marine Sciences	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
MAT	Mathematics	DPSP	Department of Computational & Physical Science	CAS	College of Arts and Sciences
FRE/GER/SPA	Modern Languages	DPML	Department of Modern Languages	CAS	College of Arts and Sciences
MUS	Music & Music Education	DPVP	Department of Visual & Performing Arts	CAS	College of Arts and Sciences
NRS	Nursing	DPNR	Department of Nursing	CHS	College of Health Sciences
PHI/POL/ECO	Philosophy, Political Science & Economics	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences
PED & HED	Physical & Health Education	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
PHY	Physics	DPSP	Department of Computational & Physical Science	CAS	College of Arts and Sciences
POL	Political Science	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences
WRI	Professional Writing	DPML	Department of Modern Languages	CAS	College of Arts and Sciences
PSY	Psychology	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
PBH	Public Health	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
REL	Religious Studies	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences
SOC	Sociology & Criminal Justice	DPCS	Department of Communication and Sociology	CAS	College of Arts and Sciences
SRM	Sport & Recreation Management	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
THE	Theatre & Arts Management	DPVP	Department of Visual & Performing Arts	CAS	College of Arts and Sciences



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**Accreditation Information**

[Click here](#) for information on accreditation.

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## Academic Action

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**Progression Standards for Athletic Training  
Education Program**

1. A cumulative GPA of 2.75 and preprofessional (natural, behavioral, and social sciences) GPA of 2.5 during the freshman and sophomore years is required for admission to the professional phase (junior and senior years) of the program.
2. A grade of C or better or a grade of S is required in all athletic training courses. A student earning a letter grade of D, F or U will be placed on academic probation in the Athletic Training Program. A letter grade of D, F or U in athletic training courses requires the student to repeat the course before progressing to subsequent courses for which the failed course is a prerequisite.
3. Grades of a C or better are required in all preprofessional phase courses (natural, behavioral and social sciences). Any preprofessional phase course may only be repeated once.
4. A student must maintain a cumulative university GPA and a semester GPA of 2.75 throughout the professional phase. A student who receives below a 2.75 cumulative and/or session GPA will be placed on academic probation for the following semester. To have the probationary status removed, a student must attain a 2.75 session GPA or higher in subsequent semesters.
5. If a student fails to attain a 2.75 session GPA, s/he will be dismissed from the program.
6. Grades of C or better are required in all athletic training and exercise science professional phase courses. A satisfactory (S) is required in all completed practica. If a grade below a C is achieved or an S is not achieved, the student may not progress to subsequent courses in the program until course is successfully repeated.
7. When repeating a professional phase athletic training or exercise science course, a student may be required to successfully complete ancillary learning experiences or clinical competencies/practica that validate theoretical knowledge.
8. A course may be repeated only one time. A student receiving a D, F, or U twice in one athletic training course or in two separate athletic training courses is dismissed from the program.

**College of Natural Science and Health Science Progression Standards**

Progression Standards for Athletic Training Education Program

**Progression Standards for the Nursing Program**

Progression Standards for the Physical and Health Education Program

Progression Standards for the Physical Therapy Program

Evaluation of Academic Standing and Progression in the Health Sciences

## Progression Standards for the Nursing Program

1. Grades of BC or better are required in all nursing, chemistry, biology and health science courses. A satisfactory (S) is required in all completed clinical. If a grade lower than a BC or a grade of (U) is earned, the student will be placed on probation in the nursing program. In order to have the nursing probationary status removed, the student must repeat the coursework and earn a grade of BC or higher and/or a grade of (S). In all concurrent nursing and practica courses a student is required to earn a BC or better in the didactic course and a (S) grade in the practica. Unsuccessful achievement in either course necessitates repeating the didactic and practica course. If courses are repeated, the university repeat/replace policy applies to all courses.
2. A student must maintain a cumulative GPA of 2.75. For First Time Freshman, GPA progression standards will be evaluated after the students attempt a minimum of 12 credits. A student whose cumulative GPA is below a 2.75 will be placed on academic probation for the following semester. To have the probationary status removed, a student must attain a 2.75 cumulative GPA in the subsequent semesters.
3. A student will be dismissed from the program if;
  - 1) s/he fails to attain a 2.75 cumulative GPA in the subsequent semester,
    - a. If a cumulative GPA is less than a 2.75 due to a course grade and that same course is not offered in the subsequent semester, probation is continued until the Fall or Spring term when the same course is offered.
  - 2) s/he is placed on academic probation a second time during his or her tenure in the program,
  - 3) s/he fails to meet the criteria for the removal from academic probation.
4. If a grade below a BC is achieved or an S is not achieved, the student may not progress to subsequent courses in the program if the course is a prerequisite of another. When repeating a nursing, biology, chemistry or, health science course, a student may be required to successfully complete ancillary learning experiences or clinical competencies/practica that validate theoretical knowledge.
5. A course may be repeated only one time. A student receiving a C, D, F, or U twice in one nursing chemistry, biology or health science course or in two nursing, chemistry, biology and health sciences courses is dismissed from the program.
6. A transfer student who takes NRS 100 and 230 concurrently and earns lower than a C in Nursing 100 must retake NRS 100 in the subsequent semester. In this case, the student may register for NRS 236 in the subsequent semester but may not register for NRS 233 or 234.
7. A student who withdraws from any nursing, chemistry, biology or health sciences course twice will be dismissed from the program. A student will be dismissed from the nursing program if they withdraw for academic reasons from a nursing, chemistry, biology or health science course that is being repeated because of a previous earned grade of C, D, F, or U.
8. If a student withdraws from a course for reasons other than director approved request for medical or personal leave, the student must successfully complete the course in the next available semester or academic term.

**College of Natural Science and Health Science Progression Standards**

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Evaluation of Academic Standing and Progression in the Health Sciences

**Progression Standards for the Physical and Health Education Program**

To complete a major in Physical Education with Health, the student must be admitted to the Teacher Education Program (TEP) in the Education Program.

**The TEP requires that a student**

1. Maintain a minimum cumulative GPA of 2.5
2. Maintain a combined GPA of 2.75 in the physical education major, the health education minor, and Department of Public Instruction approved secondary teaching education minor
3. Demonstrate professional behavior throughout his/her university career. The physical education with health student must make application to the TEP, including submission of the TEP Portfolio and passing scores on the PPST (PRAXIS I) examination, during the fall semester of his/her sophomore year. In the spring semester of the junior year, the student must successfully complete the Praxis II Content Knowledge Exam for health and physical education. Copies of the TEP Handbook are available from the Education Office.

**College of Natural Science and Health Science Progression Standards**

Progression Standards for Athletic Training Education Program

Progression Standards for the Nursing Program

Progression Standards for the Physical and Health Education Program

**Progression Standards for the Physical Therapy Program**

Evaluation of Academic Standing and Progression in the Health Sciences

## Progression Standards for the Physical Therapy Program

### PrePhysical Therapy Program

To proceed to the professional phase of the physical therapy program in the senior year, a student must have a cumulative and preprofessional (natural, behavioral, and social sciences) GPA of 3.0 or higher. Carroll University Academic Standing policies apply to prephysical therapy students.

### Professional Phase of the Physical Therapy Program

1. In the professional phase of the physical therapy program (400, 500, and 600 physical therapy courses) student must attain a grade point average of 3.0 or better each semester. If a student earns a semester grade point average between 2.0 and 2.99, s/he is placed on academic probation.
2. If a student is on academic probation during the last semester of the program, the student must earn an S in the clinical internship course and in PTH 612: Clinical Research III, to graduate.
3. A student will be dismissed from the program if 1) s/he is placed on academic probation a second time during his or her tenure in the program, 2) s/he fails to meet the criteria for the removal from academic probation, 3) if s/he earns a semester GPA of 1.99 or less or 4) if s/he receives a D, F, or U twice in one physical course or in two physical courses.
4. When repeating a physical therapy course, a student may be required to successfully complete ancillary learning experiences or clinical competencies/practica that validate theoretical knowledge.
5. If a student is unable to take further courses in the next occurring semester as a result of this policy, the student is placed on academic suspension and repeats the course during the next appropriate semester.
6. A course may be repeated only one time.



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**College of Natural Science and Health Science Progression Standards**

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**Evaluation of Academic Standing and Progression in the Health Sciences**

An interdisciplinary health science committee consisting of health sciences administrators program directors and the Registrar will conduct evaluation of academic progression at the end of each semester. Health sciences students may appeal a probation or dismissal decision by filing an Academic Affairs Petition with the Registrar's Office. The decision of the university regarding the appeal is final. During the appeal process, a student may participate in courses.

The Academic Affairs Petition form is found on the [Registrar's Office web page](#) or [click here](#).

**Academic Action**

College of Natural Science  
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Academic Standing

## Progression Standards for Music Therapy Program

### Progression Standards for Music Therapy Program

1. A cumulative GPA of 2.75 and satisfactory completion of the piano, guitar, and voice proficiency exams is required for admission to the professional phase (junior and senior years) of the program.
2. A student must maintain a cumulative university GPA and a semester GPA of 2.75 throughout the professional phase. A student who gets below a 2.75 cumulative and/or session GPA will be placed on academic probation for the following semester. To have the probationary status removed, a student must attain a 2.75 session GPA or higher in subsequent semesters.
3. If a student fails to attain a 2.75 session GPA, s/he will be dismissed from the program.
4. Grades of C or better are required in all music therapy (MTY designation) courses. A satisfactory (S) is required in all completed practica. If a grade below a C is achieved or an S is not achieved, the student may not progress to subsequent courses in the program until the course is successfully repeated.
5. A course may be repeated only one time. A student receiving a D, F, or U twice in music therapy courses (including practica) will be dismissed from the program.
6. When repeating a professional phase music therapy course, a student may be required to successfully complete ancillary learning experiences or clinical competencies/practica that validate theoretical knowledge.
7. The piano, guitar, and voice proficiency exams will only be administered once per semester. They may be repeated as often as necessary.

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Progression Standards for  
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**Academic Standing****Good Standing**

All students are expected to maintain at least a C (2.00) overall grade point average in Carroll University course work. Any student who does not maintain at least a 2.00 cumulative average in Carroll course work is subject to academic action following a review by the Academic Steering Committee.

**Probation**

As soon as a student's Carroll University grade point average drops below 2.00, that student is placed on academic probation. For a student on academic probation, the class load is limited to 12 credits. A student cannot be removed from probation until a 2.00 grade point average is attained.

**Suspension**

A student on probation for one or more semesters or a student who received no passing grades the previous semester will be suspended for one semester and the adjacent summer or be considered for dismissal. At the end of the suspension period, a student must apply for readmission. Upon suspension, a student may no longer live in on-campus housing or participate in university-related activities.

**Dismissal**

A student suspended a second time will be dismissed at the close of the semester because of failure to achieve an acceptable level of academic work. Students who are dismissed will be withdrawn from any registered courses at the University and will not be eligible to return to Carroll University.

**Academic Appeals**

The Academic Steering Committee (ASC) acts as the appeal body for questions related to academic policy, probationary questions, exemptions, etc. An academic petition form (available online or from the Registrar's Office) must be completed and returned to the Registrar's Office to initiate the appeal process. The petition form should carefully explain the nature of the request and include the appropriate signatures. All appeal decisions by the Academic Steering Committee are final.

Course grade appeals and appeals of sanctions for academic dishonesty are heard by the Student/Faculty Ethics Committee. Appeals should be made through the Office of the Associate Dean of Academic Affairs. The procedure for appeals is found in the Student Handbook.

**Returning Students**

Students returning to Carroll after the lapse of one or more semesters and students who have been suspended from the University and have become eligible to apply for readmission must do so through the Office of Admission. Each application is reviewed and applicants will be informed of the status of the application and, if applicable, the conditions of readmission.

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Cheating on examinations, plagiarism, improper acknowledgment of proper sources in written material, and inaccurate claims of work done are serious offenses in an academic setting. These forms of unethical behavior will be subject to severe disciplinary action.

The Carroll University Policies and Procedures on Student Academic Integrity can be found in the Student Handbook (available on the University's Web site) under the section entitled Academic Policies and Procedures. Instructors indicate penalties for academic dishonesty in their course syllabi.

## Academic Standing

### Good Standing

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With the recommendation of the college dean, a student already holding a baccalaureate degree from Carroll University or another institution may, under certain conditions, qualify for and be awarded an additional baccalaureate degree. Those conditions are as follows:

At least 32 credits beyond those used to achieve the initial degree must be undertaken and successfully completed at Carroll.

All of the university general education requirements in effect at the time of the enrollment for a second undergraduate degree must be met, either through transfer or in subsequent study at Carroll.

All of the program requirements for an additional major field of study must be met either through transfer or in subsequent study at Carroll.



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## Classification of Students

CLASS STANDING	CREDITS COMPLETED
Sophomore Standing	28
Junior Standing	60
Senior Standing	92

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If a student must be absent from a health sciences program for an extended period of time for medical or personal reasons or jury duty, written notice must be given to the respective program director prior to the leave, if possible. Written notice must also be given to the program's director prior to the student's return to the program. If applicable, the student may be asked to verify that s/he has complied with the program's technical standards with previously imposed conditions for leave. In addition, remediation or course repetition may be required of the student dependent on the length of the absence. Any course, laboratory, outside learning experience, or clinical practicum/internship makeup or remediation is dependent upon academic and clinical faculty and facility availability.

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**Policy on Reapplication to a Health Sciences Program**

The Policy on Reapplication defines the process by which students may seek readmission to a health sciences program following dismissal of the student from the program for failing to maintain good academic standing. Readmission candidates may apply for readmission to the program no sooner than one year and no later than three years from the date of dismissal. Readmission candidates may exercise their reapplication option only once. Readmission candidates applying to the program must submit the materials required of all applicants for admission. In addition, they must provide transcripts relating to any education experiences completed since leaving the program. A letter indicating why the readmission candidate believes s/he will succeed academically and technically in the program must accompany application materials. Candidates readmitted to a health science program must comply with the progression standards in the current catalog.

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## Policy on Student Records

Several information sources are maintained concerning each student at Carroll University: the admission file, the permanent academic record, the student personnel file, the placement file, the alumni file, the publicity file, and the financial aid file for students applying for aid. A student may review the applicable files, except for material provided in confidence, with a professional staff member under the provisions of the Family Educational Rights and Privacy Act of 1974 (FERPA) as amended.

FERPA<sup>1</sup> gives certain rights to parents regarding their children's educational records. These rights transfer to the student who has reached the age of 18 or is attending school beyond the high school level. Generally the school must have the student's written permission to release any educational information to anyone, including the student's parents. The law does allow for the following exceptions: school employees who have a need to know; other schools to which a student is transferring; certain government officials to carry out lawful functions; accrediting organizations; persons who need to know in cases of health and safety concerns.

Schools may disclose "directory information" or information published in the student directory unless the student signs a Right to Privacy form each time a student registers. Carroll University has adopted a policy that will only allow the disclosure of directory information if the party asking for the information can identify himself/herself in writing (this Carroll University policy is within FERPA regulations, which allow individual institutions to determine their own policies concerning directory information).

FERPA also grants the student the right to review those records, files, etc., that are maintained by the University. The student must make an appointment with the University Registrar to do so. Students may challenge any information they believe to be inaccurate. If the University official does not agree to modify the information, the student may file a written appeal and has a right to a hearing.

<sup>1</sup> Furnished by the United States Department of Education, fact sheet.

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**Returning Students**

After the lapse of one or more semesters, students seeking to return to Carroll on a full-time or part-time basis must reapply. Students who have been suspended from the University and have become eligible to apply for readmission must do so through the Office of Admission. The Admission Committee reviews each application and determines the current status of the student and the conditions of readmission. When a student is reaccepted into Carroll University, they will be required to follow the most recent catalog to determine graduation requirements.

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**Student's Right to Know**

**Campus Security Act of 1990:** Requires the disclosure of data on crimes committed on campus and campus safety policies and procedures. [Click here](#) for a copy of Carroll University's annual security report.

**Equity in Athletics Disclosure Act:** Requires disclosure of data on participation rates and financing men's and women's sports in intercollegiate athletic programs at coeducational schools. It also requires data on revenues, total expenses and operating expenses of intercollegiate athletic programs. Data is available on request.

**Graduation Rate:** Current and prospective students have the right to request the institution's graduation rates. These rates are available in the Office of Admission and online at: <http://nces.ed.gov/collegenavigator/>.

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**Withdrawal Policy**

Students who wish to withdraw from all classes must file an Official Withdrawal Form with the Office of Student Success. If a student is not able to visit the office (due to illness, emergency, etc.), he/she may contact the Office of Student Success to communicate their intent. The office is located in Voorhees 328 and the phone number is 262-524-7360.

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The university provides access to email and mailboxes for all students. These methods of communication are consistently used by the university in an effort to contact students. It is expected that residents will check these communications daily.



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**Academic Support**

Academic Resources provides academic support through the Career Center and the Learning Commons. Both departments are located on the lower level of the library. The Career Center serves Carroll University students and alumni by offering free services, including choosing a major, career exploration, resume and cover letter assistance, searching for a job or internship, networking tips, interviewing techniques and graduate school preparation. The Learning Commons provides free, peer to peer support services through academic workshops, the math center, subject tutoring, Supplemental Instruction and the writing center.

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**Adding or Dropping Courses**

For step-by-step instructions log on to the portal, click on the Student Tab – Courses and Registration – Registration Instructions, or click on this link [https://my.carrollu.edu/ICS/Student/Courses\\_and\\_Registration.jnz](https://my.carrollu.edu/ICS/Student/Courses_and_Registration.jnz).

A student may add a course only during the first week of the fall or spring semesters. For winter session, summer sessions, and other specially timed courses, refer to the published timetables for deadline dates to add courses. With the written consent of the instructor and the advisor, a student may drop a registered course through the eighth complete week of the fall or spring semester. For winter session, summer sessions, and other specially timed courses, refer to the published timetables for deadline dates to drop courses. The course will appear on the transcript as attempted credits; however, the grade will be a W (withdrawal) and will not affect the grade point average. It is the student's responsibility to complete the proper necessary paperwork; otherwise, the course grade will be recorded as an F.

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**Alternative Methods of Obtaining Credit**

Carroll University recognizes that learning can occur in a variety of environments and through diverse experiences. At Carroll, there are several ways of obtaining credit for prior university-level learning in addition to satisfactory course completion. Students may earn up to 64 credits in a baccalaureate program through any combination of the following types of credit:

- 1. Advanced Placement Credit** may be granted to students who are enrolled in a degree program at Carroll and obtain an appropriate score through Advanced Placement examinations. A copy of the current AP requirements is available from the Registrar or online. Qualified students may be granted credit following successful completion of a university-level course in secondary schools provided the course is submitted on a university transcript. A maximum of 48 credits may be obtained through advanced placement.
- 2. The College Level Examination Program (CLEP)** grants credit to qualified students enrolled in a degree program at Carroll for up to seven courses (28 credits) on the General Examination when the qualifying level of the 75th percentile has been achieved in each test written. This credit will be divided in the following manner: English, four; mathematics, four; natural sciences, four; humanities, eight; and social sciences/history, eight. Credit for the General Examinations will count as elective credit toward graduation; some credits may meet general education requirements. Credit also may be granted for subject examinations when the scores are at the recommended qualifying level. No more than 48 credits of CLEP credit will be granted for the general and subject matter examinations combined. Additional information and registration forms are available from the Office of Part-Time Studies. This credit must be approved in advance.
- 3. Credit by Examination** allows qualified students enrolled in a degree program at Carroll to take examinations for credit in selected courses. Such examinations are developed and administered by departments. In some instances, placement without credit might be recommended. Interested students may consult with department faculty about policies and procedures. Contact the Registrar's Office for the necessary form. A fee is charged for each examination. A student who does not complete the examination with satisfactory results may not repeat the examination.
- 4. The International Baccalaureate Diploma** is recognized by Carroll University for purposes of admission, course credit and advanced standing or placement. Sixteen credits will be granted to holders of the International Baccalaureate diploma. Additional credit may be granted when more than four higher-level examinations have been taken and scores of four or higher have been earned. For students in the program who have not earned the diploma, four credits will be granted for each higher-level examination when a score of four or higher is earned. These credits will be declared to meet core and General Education requirements when the subjects validated by examination appear to be reasonably comparable to the subjects taught at Carroll University. Otherwise, the credits will be regarded simply as elective credit toward a Carroll degree. The student must enroll as a degree-seeking student at Carroll.
- 5. Credit for Prior Learning** is possible when university-level learning, which relates to a degree program offered by the University, has occurred outside the normal educational setting. Credit for prior learning may be given when verified by employment records and the American Council on Education guidebook and transcripts or when verified by a program for credit within that program. A maximum of 24 credits may be obtained through this method. Carroll University uses the course-equivalency method with the portfolio model for assessment of prior learning that is not easily measured via standardized testing or transfer procedures. Such competency is expected to be related to the student's present degree program. The evaluation of such credit requires consideration by faculty. Students are required to demonstrate their learning, competencies and skills. Evidence will usually consist of a portfolio. However, a performance test, an essay examination, or an interview with an internal or outside expert may also be required.
- 6. Correspondence Courses**, up to 12 credits from an accredited institution, may be accepted in transfer and may be applied to a Carroll University degree. The course credit must be letter graded C or better. (D graded credit will not meet any graduation requirement.) Students must obtain written approval in advance from their adviser and the Registrar prior to registering for any correspondence or extension course. Forms are available in the Registrar's Office. A copy of the course description for each course to be taken must accompany the Transfer Credit Approval form when it is filed with the Registrar's Office. A maximum of eight semester hours of correspondence or extension course credit may be applied to major or minor requirements with the written approval of the appropriate Department Chair or College Dean. It must be filed in the Registrar's Office. Any correspondence or extension work taken prior to matriculation at Carroll University will be reviewed by the appropriate Department Chair or College Dean to determine its acceptance and application to graduation, major or minor requirements.
- 7. D.A.N.T.E.S.** (Defense Activity for Nontraditional Education Support) course work will be considered on an individual case basis.
- 8. P.O.N.S.I.** (The National Program on Noncollegiate Sponsored Instruction) credits will be evaluated on an individual basis.
- 9. Proficiency Testing in Foreign Languages:** Students who have extensive background in a language other than English may be able to earn up to 16 credits in one language by demonstrating proficiency. The proficiency exam is intended for students with a more extensive background than high school foreign language study only. Carroll University grants credit to qualified degree-seeking Carroll students through the Proficiency Testing Program in Foreign Languages sponsored by New York University.
- 10. Retroactive Credit for Modern Languages** allows students who are enrolled in a degree program to earn a maximum of 16 hours of credit in a modern language upon completion of one 300-level course with a grade of B or higher, or four, eight or twelve credits upon completion of 102, 201, or 202, respectively, with a grade of B or higher. This must be the student's first enrollment in an advanced university-level modern language course. Please see the Modern Languages and Literatures section for competency and test requirements.
- 11. Retroactive Credit for Mathematics**  
 \*Students with prior Calculus experience may enroll in Math 161, Calculus II, or Math 207, Calculus III. A student

who takes Math 161 and earns a grade of BC or above will receive retroactive credit of Math 160, Calculus I, if Advanced Placement (AP) credit has not been awarded for the course. A student who takes Math 207, Calculus III, and earns a grade of BC or above will receive retroactive credit for Math 160 and Math 161, if Advanced Placement credit has not been awarded for those courses. Students with questions regarding the optimal Calculus course to take are encouraged to contact the mathematics faculty directly.

#### **12. OCICU**

Carroll University has approved for degree credit several online courses offered through the Online Consortium of Independent Colleges and Universities (OCICU). Credits earned in an approved OCICU course are posted to a student's transcript as the equivalent Carroll University course. The courses offered by OCICU may carry a different number of credits from the equivalent Carroll course. OCICU courses have different add/drop policies, pricing, refund policies, and start and end dates. OCICU courses meet during six eight-week terms throughout the year. Only part-time students may take OCICU courses during the fall and spring terms. All students may enroll in OCICU courses in the summer. Information on all of Carroll University's Web-based courses is available online.

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## Attendance

The University expects students to be prompt and regular in attendance at all scheduled classes. Records of attendance are maintained by each individual professor, and official attention is given any student with excessive absences. Attendance at clinical experiences is mandatory for all health sciences majors.

Faculty may cancel a class due to personal illness, or other personal reasons. The instructor must contact the Dean of the College and the Registrar. Students will be notified of the cancellation via email by the instructor or by the Registrar's Office and a note will be posted near the classroom.

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**Auditing Courses**

With the instructor's permission, students generally may audit all courses at Carroll, except for studio art courses, applied music, music ensembles and laboratories. The minimum requirement to receive an audit (AU) grade is regular attendance, but individual instructors may have higher requirements. No credit is received for these courses. There are no restrictions for taking the same course for credit at a later date. However, students may not receive credit through "credit by examination" after auditing a course. Students taking the course for credit have priority enrollment over students who wish to audit.

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**Credits**

The unit of credit is the semester hour. It is defined as one 50-minute class period per week (or its equivalent) for one semester. Thus a lecture-discussion course that meets four 50-minute periods a week ordinarily carries four semester credits. One credit is granted at the completion of a semester for each applied music lesson (one half-hour per week), ensemble or practicum course for which a student is registered.



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**Course/Credit Load**

The University year is divided into two semesters, a winter session and three summer sessions. The first summer session runs for three weeks and the other two for six weeks each. A student's normal class load is 16 credits of academic work each semester, with a total of 128 credits required for graduation. Any student with a Carroll cumulative grade point average of 3.00 or higher may petition to take 20 or 21 credits at an additional charge. Under no circumstances may a student take more than 21 credits each semester. A student on academic probation may not register for more than 12 credits. A student is considered full time if enrolled in at least twelve credits; half time if in at least six credits; and less than half time if one to five credits. Students must register for all course work in the semester/term in which the work is done. A student may take a maximum of four credits for the winter session and the three-week summer session and eight credits for each six-week summer session, with not more than 20 credits total for the summer.

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**The Curriculum**

The curriculum for all undergraduates at Carroll consists of:

- 1) coursework associated with the University's General Education Program
- 2) completion of a course of study leading to one or more majors (and often a minor) including support courses
- 3) elective courses that complete the undergraduate's educational experience.

Carroll students earn the baccalaureate degree appropriate to their major field of study and are required to fulfill the degree requirements specified by the various academic programs and detailed in subsequent sections of this catalog. Graduates of the University must fulfill the requirements of a major and its associated degree requirements, the general graduation requirements and a minimum of 128 credit hours.

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**Department and Major Codes**

Major Code	Major	Department Code	Department	College Code	College
ACC	Accounting	DPAC	Department of Accounting	CBU	Department of Business, Accounting & Economics
ACS	Actuarial Sciences	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
ANB	Animal Behavior	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
PHY/GEN	Applied Physics & Engineering Dual Degree	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
ART	Art & Photography	DPVP	Department of Visual & Performing Arts	CAS	College of Arts and Sciences
ATR	Athletic Training	DPMS	Department of Human Movement Sciences	CHS	College of Health Sciences
BIO	Biology	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
BUS	Business Administration	DPBE	Department of Business & Economics	CBU	Department of Business, Accounting & Economics
CHE & BIC	Chemistry and Biochemistry	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
COM	Communication	DPCS	Department of Communication and Sociology	CAS	College of Arts and Sciences
CMP	Computational Science	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
CSC	Computer Science and Information Technology	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
CSC	Computer Science Dual Degree Program	DPPS	Department of Computational & Physical Science	CAS	College of Arts and Sciences
EDU	Education	DPED	Department of Education	CAS	College of Arts and Sciences
ENG	English	DPML	Department of Modern Languages	CAS	College of Arts and Sciences
ENV	Environmental Science	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
ESC	Exercise Science	DPMS	Department of Human Movement Sciences	CHS	College of Health Sciences
POL	Global Studies	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences

## Department and Major Codes

GRC	Graphic Communication	DPVP	Department of Visual & Performing Arts	CAS	College of Arts and Sciences
HCA	Health Care Administration	DPBE	Department of Business and Economics	CBU	Department of Business, Accounting and Economics
HSC	Health Science	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
MLS	Medical Lab Sciences	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
HIS	History	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences
MAR	Marine Sciences	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
MAT	Mathematics	DPSP	Department of Computational & Physical Science	CAS	College of Arts and Sciences
FRE/GER/SPA	Modern Languages	DPML	Department of Modern Languages	CAS	College of Arts and Sciences
MUS	Music & Music Education	DPVP	Department of Visual & Performing Arts	CAS	College of Arts and Sciences
NRS	Nursing	DPNR	Department of Nursing	CHS	College of Health Sciences
PHI/POL/ECO	Philosophy, Political Science & Economics	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences
PED & HED	Physical & Health Education	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
PHY	Physics	DPSP	Department of Computational & Physical Science	CAS	College of Arts and Sciences
POL	Political Science	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences
WRI	Professional Writing	DPML	Department of Modern Languages	CAS	College of Arts and Sciences
PSY	Psychology	DPLS	Department of Life Sciences	CAS	College of Arts and Sciences
PBH	Public Health	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
REL	Religious Studies	DPHR	Department of History, Political Science and Religious Studies	CAS	College of Arts and Sciences
SOC	Sociology & Criminal Justice	DPCS	Department of Communication and Sociology	CAS	College of Arts and Sciences
SRM	Sport & Recreation Management	DPMD	Department of Health & Medicine	CHS	College of Health Sciences
THE	Theatre & Arts Management	DPVP	Department of Visual & Performing Arts	CAS	College of Arts and Sciences

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**Electives**

Students also have the opportunity to complete elective courses to broaden their knowledge in areas outside the major. Electives are generally free of restrictions, other than prerequisites, and fulfill neither major nor general education requirements

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**Grade Policy on Transfer Work**

Carroll University offers letter grades of A, AB, B, BC, C, D and F upon completion of a Carroll University course. All transfer work grades will be converted into the Carroll University letter grade system. For example: a student transferring in a letter grade of B+ from another institution will receive a grade of B on the Carroll University transcript for that transfer course.

Please note that not all coursework from other institutions are transferable. Official transcripts must be sent to the Carroll University Registrar's Office for review.

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**Grading System and Grade Point Calculation****Grading System**

A system of letter grades is used in courses for which degree credit may be earned. A 4.00 grade point system is used under which a student earns grade points for each credit completed.

LETTER GRADE	GRADE POINT	DESCRIPTION
A	4.00	Excellent
AB	3.50	Intermediate grade
B	3.00	Good
BC	2.50	Intermediate grade
C	2.00	Average
D	1.00	Low, merely passing
F	0.00	Failure
AU		Audit
I		Incomplete (See definition)
IP		In progress
NC		No credit allowed
NR		Grade not received
S		Satisfactory (A, A/B, B, B/C, C level)
U		Unsatisfactory (D or F level)
W		Withdrawal

**Grade Point Calculation**

The grade point values when multiplied by the number of course credits give the total number of grade points earned for that particular course. In a four-credit course, for example, a grade of B yields 12 grade points; a grade of A yields 16 grade points. The grade point average is the ratio between total academic grade points and total academic hours: that is, the quotient obtained by dividing the total number of academic grade points earned by the total number of academic hours attempted. For example, a program of 16 academic credits in which 48 grade points are earned will yield a grade point average of 3.00 or an average of B (48 divided by 16 = 3.00).

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**Incomplete Grading**

A report of incomplete means that the student has been unable to complete the required work for a valid reason; it is not given for neglected work. In order to receive an incomplete, the student must initiate the request by submitting a properly completed form (available online and from the Registrar's Office) to the instructor prior to the end of the term. If the instructor agrees with the request, the completed form is signed by the student, the instructor and the department chair and is then submitted by the instructor to the Registrar. Upon receiving the form with all relevant information and appropriate signatures, the Registrar will post the incomplete grade to the student's transcript. An incomplete must be removed by the end of the eighth week of the next semester or it automatically becomes a failure. An extension of no more than one year may be granted only with written consent from the instructor and the department chair.



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**Independent Study**

Independent study is offered by most programs and is subject to the same general university regulations that govern any course offering. Such courses are taken for academic credit (one to four credits) with the appropriate grading from an assigned instructor. The format of study may vary and is formulated in consultation with the assigned instructor. An independent study may be taken only with consent of the instructor and the college dean and must be arranged with the instructor before registering. In general, a student may count a maximum of four independent study credits toward graduation. An approved Permit for Independent Study form, available at the Registrar's Office, and a syllabus must be presented at the time of registration.

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**Individually-Designed Major**

A student interested in designing such a major will, in consultation with an adviser qualified and willing to assist, work out a program of study based primarily on regularly-taught courses at Carroll. The degree requirements of either the Bachelor of Arts or Bachelor of Science will be incorporated into this plan. The entire plan must be submitted to the Academic Steering Committee for review. It will reject any plan that creates staffing problems, violates the principle of the need for balance between concentration and breadth of study, or for any other reason is judged to be academically unsound. It will not impose a general rule about the number of courses in the major, except that no student will be permitted to take more than 40 credits within a program, except in professional programs. All proposals for individually-designed majors must be submitted to the Academic Steering Committee no later than one year prior to the intended date of graduation. A planning and approval form for the Individually Designed Major is available in the Registrar's Office.

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**International and Domestic Off-Campus Study****International and Domestic Off-Campus Study Opportunities**

The Office of International Education (OIE) provides Carroll students with opportunities to enhance the awareness of their own cultural conditioning, assumptions and perspectives by bringing them in contact with people who have backgrounds significantly different from their own. Two types of benefits result from such an experience:

- (1) Students develop a more vivid consciousness of the kinds of social, political, economic and religious forces that have contributed to the formation of their own self-concepts, and to the structure of American society as a whole;
- (2) students develop a growing understanding of other cultures and customs.

Most international and many domestic study abroad/away activities meet the Cross-Cultural (CCE) requirement of the Pioneer Core curriculum.

Carroll offers a variety of short-term study abroad options, with a worldwide geographic scope that spans all continents but Antarctica. Carroll's NCEP (New Cultural Experiences Program) and CCS 300 courses are developed and taught by Carroll faculty. A description of approved NCEP and CCS 300 courses can be found on the CCE web page, [click here](#).

Many semester and academic year study abroad opportunities exist for students who want longer, in-depth academic experiences in another country. Students in good academic standing who have earned 16 Carroll University credit hours at the time of participation may apply for enrollment in study abroad. Most students study abroad during their junior or senior year, although some students find that international study during their sophomore year is a better fit for their program of study. Students who are approved for study abroad must meet the requirements of their chosen program. Approved students will remain enrolled full time at Carroll University during the time they are abroad. Additional information about each of the options, including costs and the application is available on the Carroll University CCE Website.

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**Internships or Work-Oriented Experiences**

Students are urged to participate in a work-oriented gateway experience to prepare for their work in the world. Most work-oriented experience will be related to the student's major or minor field and generally will be taken during the senior year. Internships and work-oriented experiences are under the direct supervision of a member of the Carroll University faculty. Such courses are taken for academic credit with the appropriate grading (letter grades or S/U) from an assigned instructor. Each program will determine whether an internship or work-oriented experience will be offered. These courses are subject to the general regulations that govern any course offered, including registration within the time period allowed for an on-campus course. A student must have permission for an internship or work-oriented experience and present an approved Permit for Internship upon registration.

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**Majors/Minors****Majors**

In order to be eligible for a Bachelor of Arts, Bachelor of Science or Bachelor of Music Education degree, a student must complete one major and earn a minimum 2.00 grade point average (Carroll and transfer credit) in all courses attempted for the major.<sup>1</sup> Generally majors require no more than 64 credits within a program (exclusive of credit for internships).<sup>2</sup> This regulation does not prevent a student from earning more than 64 credits, which would then permit the student to earn additional course credit in the major. The requirements for satisfying a specific major may be found under each program listing in the course descriptions section of this catalog. When a student has decided on a major field, he/she should consult with a faculty member in that program and make the necessary arrangements with the Registrar's Office. A student who elects to complete a second major should have an adviser from that program also. Students declaring more than one major must declare one major as the primary major.<sup>3</sup> This declaration must be specified when a student applies for graduation.

The primary major will determine which degree is earned (B.S., B.A., B.S.N., or B.M.E.). A course may count toward two majors as long as the majors are in different disciplines. If a student has more than one major, however, each major must have 32 credits unique to each major. The student also may select a minor. A student may also count the same course in the major toward a minor as long as the minor is in a different program. The major must have a minimum of 32 unique credits in the major, and the minor must have 16 unique credits. In programs that have multiple emphases, a student may declare only one emphasis. A transfer student is expected to complete in residence at Carroll at least one-fourth of the number of credits required for the stated major field(s) of study.

**Footnotes:**

1. Some majors that must meet outside standards for accreditation may require a higher GPA.
2. Required supporting courses are included within the 64-credit limit. Majors within professional programs may exceed 64 credits.
3. Specific programs designate major support courses that are required for primary majors only.

**Minors**

Students may also decide to select one or more minors from a broad range of fields. While a minor typically requires fewer credits than a major, it provides students with a coherent course of study in the field. Descriptions and course requirements are listed in the program sections. At least one-fourth of the total credits required must be taken at Carroll with a minimum of a 2.00 grade point average. A student may not select a major and minor in the same discipline. A course in the minor may also count toward another minor as long as each minor has 16 unique credits.

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**Method of Course Delivery**

Carroll University offers several different methods of instruction. Please see the descriptions below.

**Traditional and/or Enhanced**

Course instructor and students meet at specified days, times, and location. All or nearly all instruction and course content are presented in the classroom. Some technology may be used for instruction and delivery of course content. This can include posting content (related to learning goals) to MyCourses, use of discussions, blogs or wikis (either through course management system or other), or using technology in the classroom (e.g., clickers).

**Hybrid**

Hybrid courses are noted in the catalog using the following section letters; HY, HX, HZ, etc. Twenty-five percent (25%) to seventy-five percent (75%) of instruction takes place in an online environment. As noted, physical on-campus meeting time is generally one quarter to three quarters of a traditional course. For example, a course that typically meets 4 hours/week in a traditional course will meet for 2 hours/week in a 50% hybrid course.

**Online**

Online courses are noted in the catalog using the following section letters; WW. Instruction is delivered completely online, often through MyCourses. Typically, there are no face-to-face meetings, though an introductory first meeting may occur at the beginning of the semester and/or for the purpose of proctoring exams.

Carroll University Catalog > Undergraduate Catalog > Academics > Academic and Program Policies > Course Information and Grading > [Repeating Coursework Graded C, D or F at Carroll University](#)

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## Repeating Coursework Graded C, D or F at Carroll University

Any Carroll University credit earned with a C, D or F grade may be retaken at Carroll one time only for any given course. Both the C, D or F grade and the repeated grade will be recorded on the Carroll University transcript, but only the last grade awarded will be used in the appropriate grade point calculations. A student may not replace a Carroll University earned C, D or F with transfer credit. A student may not replace Carroll coursework graded higher than a C unless this provision is specifically allowed in program-specific policies.

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**Repeating Transfer Coursework Graded C, D or F**

Any transfer credit with an earned C, D or F may be retaken for credit with a similar course at Carroll University or another accredited institution as approved by the Registrar. Upon matriculation at Carroll University, the student must obtain permission in advance from the Registrar to retake a transfer course graded C, D or F with a similar transfer course or with a Carroll University course. Both the C, D or F grade and the repeated grade will be recorded on the Carroll University transcript, but only the last grade awarded will be used in the appropriate grade point calculations. A student may not replace transfer coursework graded higher than a C unless this provision is specifically allowed in program-specific policies.



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## Satisfactory Grading Option for Juniors and Seniors

Juniors and seniors have the choice of taking any or all elective courses on a satisfactory/unsatisfactory (S/U) basis. A student shall not be permitted to alter the decision after the first four weeks of the semester. No student may take any course to complete a general education requirement on an S/U basis. No student may take any course within the major or minor fields, including required supporting courses, on an S/U basis, with one exception: internships or work-oriented experiences may count toward the major or minor even if taken S/U. Students are advised that graduate or professional schools often give less consideration to applicants whose records show this grade option. Satisfactory/unsatisfactory grades will not be included in computing the grade point average.

**Transcripts and  
Transferring Credits**

Transcripts

[Transfer Credit Policy after  
Enrollment](#)**Transfer Credit Policy after Enrollment**

Individual departments will evaluate transferred coursework to ensure equivalent content is being learned by the student in the transferred course. Therefore, it is necessary to obtain permission in advance from the Carroll University Registrar's Office in order to have coursework from another institution accepted in transfer. [Click here](#) for the Transfer of Credit Approval form.

All coursework must be graded C or better to be accepted as credit earned toward graduation. However, core distribution courses, major and minor requirement courses may be fulfilled with a D but no credit is earned toward graduation. Grade point deficiencies at Carroll University cannot be made up with transfer course credit. NOTE: Students are required to complete their final 32 hours at Carroll University.

Official transcripts of all coursework from every post-secondary institution attended must be sent immediately following completion of the course to:

Carroll University Registrar's Office  
100 N. East Ave.  
Waukesha, WI 53186

Failure to have transcripts sent, even if the course cannot be accepted for credit, may result in the student being dismissed or the degree being rescinded.

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**Wait List Policy****Closed Classes and Wait List Policy**

1. You may now add yourself to a course waitlist through Enhanced Web Registration.
2. If a course that you wish to register for is full:
  - i. You will be given a warning that indicates: 'There are no seats available in this section.'
  - ii. The warning will note how many students are currently on the waitlist for the section.
  - iii. You will have the opportunity to:
    - a. Add yourself to the waitlist using the 'Add to Waitlist' button
    - b. Cancel the action by clicking on the 'Do not Add' button
3. If a seat opens in a section you waitlisted for and if you are the first person on the waitlist you will be given a course authorization to add the course and notified via your Carroll University email address. You will have 48 hours to register for the class once this email has been sent. If you do not register for the class within the 48 hour window you will lose your spot on the waitlist.
4. To determine for which course(s) you have been granted authorization to register, access Enhanced Web Registration and check the 'Waitlisted Courses' section. The course(s) you have received authorization to add will now have a 'Move to Current' link listed to the left of the course(s).
5. To add a course:
  - i. Click on the 'Move to Current' link
  - ii. Click the 'Change Waitlisted to Current' button on the new page that opens up
6. **NOTE:** You will not be allowed to waitlist for different sections of a class that you are already registered to take. If you wish to take a different section of a class you will need to speak with the instructor of the section you wish to enroll into and have them provide you course authorization to do so.

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- » [Awarding of Diplomas](#)
- » [Graduating with Latin Honors](#)
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**Graduation Requirements**

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**Graduation Requirements**[Awarding of Diplomas](#)[Graduating with Latin Honors](#)[General Graduation](#)[Requirements](#)**Awarding of Diplomas**

Diplomas are awarded three times a year (May, August and December) to seniors who have completed all degree requirements. Commencement ceremonies are conducted in May each year.

Seniors who have all degree requirements completed but wish to defer graduation, and those with specific academic deficiencies, will be allowed to participate in Commencement as long as the deficiencies are within the following parameters:

1. A need for one to four additional credits or completion of student teaching that is already in progress.
2. A deficiency of eight or fewer academic grade points.
3. Incomplete grades of from one to four credits.

Students may participate in only one Commencement. Notice of intent to participate in the May Commencement ceremony without the degree being awarded should be filed with the registrar's office at the time the application for graduation is submitted or by April 15. All students who choose not to receive their degree and those with academic deficiencies will receive their diplomas at the next issuance following completion of all required work

**Graduation Requirements**

Awarding of Diplomas

**Graduating with Latin Honors**

- » [Phi Kappa Phi](#)
  - » [Delta Sigma Nu](#)
  - » [Graduation Honors](#)
- General Graduation Requirements

**Graduating with Latin Honors**

Carroll University offers students the opportunity to graduate with honors. For more information regarding one of these honors or to view the criteria for each one, click below.

[Phi Kappa Phi](#)[Delta Sigma Nu](#)[Graduation Honors](#)

**Graduating with Latin Honors**[Phi Kappa Phi](#)[Delta Sigma Nu](#)[Graduation Honors](#)**Phi Kappa Phi**

**Phi Kappa Phi:** Carroll University invites students in the top 7.5% of the junior class and the top 10% of the senior class and graduate programs to join Phi Kappa Phi, the nation's oldest, largest, and most selective all-discipline honor society. Phi Kappa Phi gives its members a lifelong connection to a global network of academic and professional activities, including opportunities to apply for national scholarships.

**Graduating with Latin Honors**[Phi Kappa Phi](#)[Delta Sigma Nu](#)[Graduation Honors](#)**Delta Sigma Nu**

**Delta Sigma Nu** is the university's honorary scholastic society. Students in the upper 10 percent of the senior class who have completed by graduation 64 letter-graded credits at Carroll and a total of 100 letter-graded credits are elected to membership. The only exception is students on approved off-campus programs where letter grades are not given. Members of the junior class with an overall grade point average of 3.9 or higher who have completed 64 letter-graded credits at Carroll and have been enrolled at Carroll University for at least four semesters are elected to membership.



**Graduating with Latin Honors**

Phi Kappa Phi

Delta Sigma Nu

[Graduation Honors](#)**Graduation Honors**

**Graduation honors** based on the cumulative grade point average (GPA)\* are awarded to those students who have completed all requirements for the degree: summa cum laude requires a GPA starting at 3.9 on a 4.0 scale; magna cum laude requires a GPA starting at 3.6; cum laude requires a GPA starting at 3.4. The complete record is considered, and there must be a minimum of 64 credits of letter grades. In order to be eligible for honors, a student must complete at Carroll, in letter-graded courses, one-half of the hours (currently 64) required for graduation. Students with transfer work must meet two criteria:

1. The student must have 64 letter-graded credits earned at Carroll.
2. Since a student with transfer work has a Carroll and an overall GPA, the lower of the two GPAs determines eligibility for honors and placement into one of the above three honors categories.

\*The GPA is not rounded up.

Second degree graduation honors will be awarded to students who have completed all requirements for the degree. There must be a minimum of 32 letter-graded credits completed at Carroll University. The entire undergraduate record is considered and, if there is transfer work, the lower of the Carroll or overall grade point average (GPA)\* determines eligibility for honors and placement into one of the three following categories: summa cum laude requires a GPA starting at 3.9 on a 4.0 scale; magna cum laude requires a GPA starting at 3.6; cum laude requires a GPA starting at 3.4.

Note: Graduating with honors, or as part of an honors society such as Phi Kappa Phi or Delta Sigma Nu, is distinct from the Honors Program. For information on the Honors Program, see the Honors Program page.

**Graduation Requirements**

Awarding of Diplomas

Graduating with Latin Honors

[General Graduation Requirements](#)**General Graduation Requirements**

1. Students must earn a minimum of 128 credits, with the last 32 credits completed while enrolled at Carroll.
2. To graduate, students must earn a minimum 2.0 cumulative grade point average and a minimum 2.0 Carroll University grade point average. In addition, students must earn a "D" or better in all required coursework, including general education requirements.
3. An Application for Graduation form must be filed with the registrar's office one year before the expected date of graduation. Forms are available online and at the Registrar's Office. After the application is filed, a degree audit is sent to the student indicating remaining requirements to be completed.
4. Because mathematical literacy is relevant to both liberal learning and the practical demands of contemporary society, all students must demonstrate a knowledge of and proficiency in mathematics. Mathematics 106 or higher and 8 credits in a modern language (MML) other than English is required for all students pursuing a Bachelor of Arts degree or a Bachelor of Music Education degree. Computational Science 112 and 114 is required for all students pursuing a Bachelor of Science in Nursing degree. Students pursuing the Bachelor of Science degree are required to complete Computational Science 112 plus 113 or 114. This requirement can also be met by Advanced Placement credit in statistics or calculus. For a complete guide, refer to the chart below.
5. Each year the academic community gathers to consider contemporary issues and enduring questions, to honor individual and collective achievement, and to celebrate shared vision and values. All full-time undergraduate students must attend two convocation events per academic year. At least one of those events each year must be a campus-wide event including; Opening Convocation, Founder's Day Convocation, Baccalaureate, Celebrate Carroll, or the Annual Waukesha UNAFF Traveling Film Festival. For department-sponsored convocations, students must attend through the Question and Answer time or they do not get credit for attending that convocation.

**DEGREE REQUIREMENTS**

Bachelor of Arts	Students must take 8 credits in a modern language (MML) other than English, this does not include American Sign Language.
	Carroll University will accept a total of 8 transferred credits from another college/university as long as all 8 credits are completed in the same language.
	MAT106 or higher
Bachelor of Music Education	Students must take 8 credits in a modern language (MML) other than English
	MAT106 or higher
Bachelor of Science*	Students must take CMP112 and either CMP113 or CMP114, or
	MAT140 or higher and CSC110 or higher
	*Each major may have specific program requirements.

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**Honors and Awards**

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**Honors and Awards**[Dean's List](#)[Honors](#)[Honors Program](#)[Graduation Honors](#)**Dean's List**

**The Dean's List** is determined twice each year at the end of the fall and spring semesters. It includes the names of all full-time degree candidates who earned at least a 3.5 grade point average the previous semester in a minimum of 12 credits with letter grades with the exception of junior-and senior-level nursing students who need seven of the 12 credits with letter grades. The names of students on the dean's list are sent to the student's local newspaper if all of the student's grades are available at the time of the list's release and if the student has authorized the release of this information. Achievement of the dean's list is noted on the student's transcript. Dean's list for part-time students will be determined after a student has earned 12 Carroll credits and has a Carroll cumulative GPA of 3.50. Thereafter, a student who completes fewer than 12 credits per semester and earns at least a 3.500 GPA is designated as being on the dean's list for that semester.

**Honors and Awards**

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**Honors**

**The Dean's List** is determined twice each year at the end of the fall and spring semesters. It includes the names of all full-time degree candidates who earned at least a 3.5 grade point average the previous semester in a minimum of 12 credits with letter grades with the exception of junior-and senior-level nursing students who need seven of the 12 credits with letter grades. The names of students on the dean's list are sent to the student's local newspaper if all of the student's grades are available at the time of the list's release and if the student has authorized the release of this information. Achievement of the dean's list is noted on the student's transcript. Dean's list for part-time students will be determined after a student has earned 12 Carroll credits and has a Carroll cumulative GPA of 3.50. Thereafter, a student who completes fewer than 12 credits per semester and earns at least a 3.500 GPA is designated as being on the dean's list for that semester.

**Phi Kappa Phi:** Carroll University invites students in the top 7.5% of the junior class and the top 10% of the senior class and graduate programs to join Phi Kappa Phi, the nation's oldest, largest, and most selective all-discipline honor society. Phi Kappa Phi gives its members a lifelong connection to a global network of academic and professional activities, including opportunities to apply for national scholarships.

**Delta Sigma Nu** is the university's honorary scholastic society. Students in the upper 10 percent of the senior class who have completed by graduation 64 letter-graded credits at Carroll and a total of 100 letter-graded credits are elected to membership. The only exception is students on approved off-campus programs where letter grades are not given. Members of the junior class with an overall grade point average of 3.9 or higher who have completed 64 letter-graded credits at Carroll and have been enrolled at Carroll University for at least four semesters are elected to membership.

**Graduation honors** based on the cumulative grade point average (GPA)\* are awarded to those students who have completed all requirements for the degree: summa cum laude requires a GPA starting at 3.9 on a 4.0 scale; magna cum laude requires a GPA starting at 3.6; cum laude requires a GPA starting at 3.4. The complete record is considered, and there must be a minimum of 64 credits of letter grades. In order to be eligible for honors, a student must complete at Carroll, in letter-graded courses, one-half of the hours (currently 64) required for graduation. Students with transfer work must meet two criteria:

1. The student must have 64 letter-graded credits earned at Carroll.
2. Since a student with transfer work has a Carroll and an overall GPA, the lower of the two GPAs determines eligibility for honors and placement into one of the above three honors categories.

\*The GPA is not rounded up.

Second degree graduation honors will be awarded to students who have completed all requirements for the degree. There must be a minimum of 32 letter-graded credits completed at Carroll University. The entire undergraduate record is considered and, if there is transfer work, the lower of the Carroll or overall grade point average (GPA)\* determines eligibility for honors and placement into one of the three following categories: summa cum laude requires a GPA starting at 3.9 on a 4.0 scale; magna cum laude requires a GPA starting at 3.6; cum laude requires a GPA starting at 3.4.

*Note: Graduating with honors, or as part of an honors society such as Phi Kappa Phi or Delta Sigma Nu, is distinct from the Honors Program. For information on the Honors Program, see the [Honors Program](#) page.*

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**Honors Program**

The mission of the Carroll University Honors Program is to encourage motivated and talented students to pursue a breadth and depth of knowledge within an enriched curriculum. The program creates an environment designed to challenge students' perspectives and to foster intellectual development. This interdisciplinary program offers intensive sections of courses distributed over the arts and sciences. The Honors Program also provides special cultural and social activities on and off campus for all honors scholars.

Upon completion of normal Carroll University admission, all freshman applicants are considered for the Honors Program. Following a comprehensive review, the Carroll Student Scholars Committee invites selected candidates to apply to the program. Late applicants, as well as transfer students and students currently enrolled at Carroll, are considered for the program on the basis of available openings.

For more details, see the [Honors Program](#) page.

**Enrichment Programs**

Intensive English Language Program (English as a Second Language - ESL)

**Honors**

» A List of Honors Courses  
Study Abroad and Domestic Study Away  
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**Honors**

**Lilly Goren** Professor of Political Science, Interim Director

The Honors Program at Carroll University encourages motivated and talented students to pursue a breadth and depth of knowledge within an enriched curriculum. The program creates an environment designed to challenge students' perspectives and foster intellectual development.

**Learning Outcomes for the Honors Program**

1. Students will expand the breadth and depth of their knowledge through special readings, interdisciplinary approaches, and current research.
2. Students will be able to address issues and problems in an open-minded, analytical and creative way. They will learn to make connections between disparate subjects, to approach topics from a variety of perspectives, and to relate their coursework to contemporary issues.
3. Students will demonstrate the ability to do independent research, or other creative work, while working with faculty mentors and similarly motivated students.

Students admitted to the Honors Program upon matriculation to the University are expected to complete a six course curriculum. These include:

CCS 100H, Cultural Seminar  
ENG 170H, Writing Seminar

**Four additional honors courses, which may be:**

Courses designated as honors (H) on the timetable.  
One honors contract course (arranged with the instructor on an individual basis).  
A Pioneer Scholar Experience.  
A course completed on a semester or year study abroad program.  
Honors courses completed at a previous institution.

Students who enter the Honors Program after their first year must complete a five course curriculum.

To graduate as a member of the Honors Program, a student must attain an overall grade point average of at least 3.40 with grades of B or better in each honors course. A student earning less than a B in any honors course will be removed from the program. For more information, please contact the Carroll University Scholars Center.

- A List of Honors Courses
  - CCS100H: Honors - Cultural Seminar (4 hours)
  - CMP112H: Honors Computational Thinking I (4 hours)
  - CMP114H: Honors Computational Thinking II- Statistical Analysis Emphasis (4 hours)
  - COM290H: Intro to Health Communication (4 hours)
  - ENG170H: Writing Seminar (4 hours)
  - ENG255H: Postcolonial Literature and Theory (4 hours)
  - ENV120H: Conservation and Environmental Improvement (4 hours)
  - HIS106H: America Since 1877 (4 hours)
  - HIS224H: The World Since 1945 (4 hours)
  - HIS225H: Medieval Europe, China, and the Islamic Crescent (4 hours)
  - HON291H: Topics in Honors - Fine Arts (4 hours)
  - HON292H: Topics in Honors - Humanities (4 hours)
  - HON293H: Topics in Honors - Natural Sciences (4 hours)
  - HON294H: Topics in Honors - Philosophy, Ethics, Religion (4 hours)
  - HON295H: Topics in Honors-Social Science (4 hours)
  - NRS300H: Critical Inquiry in Nursing Research Honors (2 hours)
  - POL210H: Origins of Democratic Thinking (4 hours)
  - PHI206H: Ethics (4 hours)
  - PHY105H: Astronomy (4 hours)
  - PHY105HL: Astronomy lab
  - SOC102H: Sociology of Social Problems (4 hours)

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Honors Program

[Graduation Honors](#)**Graduation Honors**

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1. The student must have 64 letter-graded credits earned at Carroll.
2. Since a student with transfer work has a Carroll and an overall GPA, the lower of the two GPAs determines eligibility for honors and placement into one of the above three honors categories.

\*The GPA is not rounded up.

Second degree graduation honors will be awarded to students who have completed all requirements for the degree. There must be a minimum of 32 letter-graded credits completed at Carroll University. The entire undergraduate record is considered and, if there is transfer work, the lower of the Carroll or overall grade point average (GPA)\* determines eligibility for honors and placement into one of the three following categories: summa cum laude requires a GPA starting at 3.9 on a 4.0 scale; magna cum laude requires a GPA starting at 3.6; cum laude requires a GPA starting at 3.4.

Note: Graduating with honors, or as part of an honors society such as Phi Kappa Phi or Delta Sigma Nu, is distinct from the Honors Program. For information on the Honors Program, see the Honors Program page.



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## Transcripts and Transferring Credits

[Ordering Transcripts](#)

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**Transcripts and  
Transferring Credits****Transcripts**

Transfer Credit Policy after  
Enrollment

**Transcripts**

The Registrar's Office supplies official transcripts of records of those students who have no outstanding obligations to the university. In accordance with the Family Educational Rights and Privacy Act (1974), transcripts cannot be released without the express written consent of the student.

All transcript requests are completed online. To begin your order, [click here](#).

**Transcripts and  
Transferring Credits**

Transcripts

[Transfer Credit Policy after  
Enrollment](#)**Transfer Credit Policy after Enrollment**

Individual departments will evaluate transferred coursework to ensure equivalent content is being learned by the student in the transferred course. Therefore, it is necessary to obtain permission in advance from the Carroll University Registrar's Office in order to have coursework from another institution accepted in transfer. [Click here](#) for the Transfer of Credit Approval form.

All coursework must be graded C or better to be accepted as credit earned toward graduation. However, core distribution courses, major and minor requirement courses may be fulfilled with a D but no credit is earned toward graduation. Grade point deficiencies at Carroll University cannot be made up with transfer course credit. NOTE: Students are required to complete their final 32 hours at Carroll University.

Official transcripts of all coursework from every post-secondary institution attended must be sent immediately following completion of the course to:

Carroll University Registrar's Office  
100 N. East Ave.  
Waukesha, WI 53186

Failure to have transcripts sent, even if the course cannot be accepted for credit, may result in the student being dismissed or the degree being rescinded.

**Academics**

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**Calendar**

[Click here](#) for the Academic Calendar.

# Academic Calendar

## FALL SEMESTER 2016

August 31	Wednesday		New international student "Move in Day"
September 1 & 2	Thurs/Fri		Orientation for new international students
September 2	Friday	8 a.m- 1 p.m.	Freshman "Move in Day"
September 4	Sunday	10 a.m. - 1p.m.	All returning students "Move in Day"
September 5	Monday		Labor Day – no classes
September 6	Tuesday		Orientation for new part-time and full-time transfer students
September 6	Tuesday		CCS100 courses meet. Attendance is required for students registered in CCS100
September 6	Tuesday	6 p.m.	<u>First-half semester MBA courses begin</u>
September 7	Wednesday		Last day to decrease or cancel meal plans. <a href="https://my.carrollu.edu/ICS/Departments/Dining_Services/Meal_Plans.jnz">https://my.carrollu.edu/ICS/Departments/Dining_Services/Meal_Plans.jnz</a>
September 7	Wednesday	3 p.m.	Opening Day Convocation
September 8	Thursday	7 a.m.	FA16 UNDG and remaining GRAD courses begin. <b>(New registrations and schedule changes can be done online).</b>
September 14	Wednesday		<u>First-half semester MBA courses:</u> last day to add.
September 15	Thursday		FA16 UNDG and GRAD (non-MBA): last day to add classes. Last day to admit new students. <b>Last day to change from FT to PT status OR to change from PT to FT status. FT students must be registered for 12 credits. WE DO NOT COUNT WAITLISTED COURSES.</b>
September 23	Friday		First-half-semester classes: last day to select S/U grading or change from S/U to letter grading (non-MBA).
September 30	Friday		Last day to turn in grade appeals to Academic Affairs for the SP16 and SU16 semesters.
October 1	Saturday		Homecoming
October 5	Wednesday		<u>First-half semester MBA courses:</u> last day to drop or change to audit.
October 6	Thursday		Last day to select S/U grading or to change from S/U to letter grading.
October 6	Thursday		First-half-semester classes: last day to drop or change to audit. (Non-MBA courses)
October 10	Monday		Last day for part-time students not receiving Title IV aid to drop a class and receive a partial refund.
October 14	Friday	6 p.m.	Fall break begins: Campus housing remains open for fall break. MBA classes meet.
October 19	Wednesday	7 a.m.	UNDG and remaining GRAD: <b>classes resume</b> (non-MBA).
October 20	Thursday	9 a.m.	Mid-term grades due.
October 26	Wednesday		<u>First-half semester MBA courses end.</u>

November 1	Tuesday	6 p.m.	<u>Second-half semester MBA courses begin.</u>
November 3	Thursday		<b>Deadline for submitting work to instructors for incompletes received the previous spring and summer.</b>
November 3	Thursday	9 a.m.	Registration packets available <b>ONLINE</b> for all current students for SP17.
November 3	Thursday		Advising begins for all students for SP17: required for UNDG students. Recommended for GRAD students.
November 9	Wednesday		<u>Second-half semester MBA courses:</u> last day to add.
November 10	Thursday		<b>FA16: Last day to drop classes or to change to audit. (Non-MBA courses)</b>
November 10	Thursday		Second-half-semester classes: last day to select S/U grading or change from S/U to letter grading (Non-MBA courses).
November 10	Thursday		Incomplete grades lapse into "F" if no grade submitted from previous spring and summer.
November 17	Thursday	9 a.m.	Registration begins for WN17.
November 21	Monday		Second-half-semester classes: last day to drop or change to audit (Non-MBA courses).
November 23	Wednesday	6 p.m.	Thanksgiving recess begins.
November 23	Wednesday	6 p.m.	Campus Housing closes.
November 23	Wednesday	6 p.m.	<u>MBA courses will meet.</u>
November 27	Sunday	Noon	Campus Housing opens to students.
November 28	Monday	7 a.m.	Classes resume (All UNDG and GRAD).
November 28	Monday		SP17 Registration begins for currently enrolled UNDG students.
November 30	Wednesday		<u>Second-half semester MBA courses:</u> last day to drop or change to audit.
December 5	Monday		SP17 Registration begins for all new students.
December 5	Monday		SP17 Registration begins for all GRAD students
December 13	Tuesday		Last day of classes.
December 14	Wednesday		Reading Day: no daytime classes; final exams for Wednesday evening & Monday/Wednesday evening classes.
December 15-20	Thurs. – Tues.		Final examinations.
December 21	Wednesday		<u>Second-half semester MBA courses: end</u>
December 21	Wednesday	Noon	Campus Housing closes.
December 22	Thursday	9 a.m.	Final grades due.
<b><i>WINTER SESSION 2017</i></b>			
January 1	Sunday	Noon	Campus Housing opens for winter session students and approved groups
January 2	Monday	8 a.m.	Classes begin. <b>(New registrations and schedule changes can be done online).</b>
January 4	Wednesday		Last day to add.

January 5	Thursday		Last day to drop.
January 23	Monday		Classes end.

***SPRING SEMESTER 2017***

January 3	Tuesday	6 p.m.	<u>First-half semester MBA classes begin.</u>
January 11	Wednesday		<u>First-half semester MBA classes: last day to add.</u>
January 22	Sunday	Noon	Campus Housing opens.
January 22	Sunday		New International Student “Move in Day”
January 23	Monday	5 p.m.	Orientation for new transfer.
January 23	Monday		Orientation for new international students
January 23	Monday		Last day to decrease or cancel meal plans. <a href="https://my.carrollu.edu/ICS/Departments/Dining_Services/Meal_Plans.jnz">https://my.carrollu.edu/ICS/Departments/Dining_Services/Meal_Plans.jnz</a> .
January 24	Tuesday	7 a.m.	SP17 UNDG and remaining GRAD courses begin. <b>(New registrations and schedule changes can be done online).</b>
January 31	Tuesday		SP17 UNDG and GRAD (non-MBA): last day to add classes. Last day to admit new students. <b>Last day to change from PT to FT status OR from FT to PT status. FT students must be registered for 12 credits. WE DO NOT COUNT WAITLISTED COURSES.</b>
February 1	Wednesday		<u>First-half semester MBA classes: last day to drop or change to audit</u>
February 1	Wednesday	11 a.m.	Founders’ Day Convocation.
February 9	Thursday		First-half-semester classes: last day to select S/U grading or to change from S/U to letter grading (Non-MBA courses).
February 15	Wednesday		Last day to turn in grade appeals to Academic Affairs for the FA16 and WN17 semesters.
February 22	Wednesday		<u>First-half semester MBA courses end.</u>
February 22	Wednesday		Last day to select S/U grading or to change from S/U to letter grading.
February 22	Wednesday		First-half-semester classes: last day to drop or change to audit (Non-MBA courses).
February 27	Monday	9 a.m.	Registration packets available <b>ONLINE</b> to all current students for FA17.
February 27	Monday		Advising begins for all students for FA17: required for UNDG students. Recommended for GRAD students.
February 27	Monday		Last day for part-time students not receiving Title IV aid to drop a class and receive a partial refund.
February 28	Tuesday		<u>Second-half semester MBA courses begin.</u>
March 7	Tuesday	9 a.m.	Registration begins for SU17.
March 8	Wednesday		<u>Second-half semester MBA courses: last day to add.</u>

March 10	Friday	11:00 pm	Classes end for Spring break
March 11	Saturday	Noon Noon	<b>Spring Break begins.</b> Campus Housing Closes.
March 19	Sunday	Noon	Campus Housing opens.
March 20	Monday	7 a.m.	Classes resume.
March 21	Tuesday	9 a.m.	Mid-term grades due.
March 27	Monday		FA17 Registration begins for current UNDG students.
March 29	Wednesday		<b>Deadline for submitting work to instructors for incompletes received the previous fall and winter.</b>
March 29	Wednesday		Second half-semester classes: last day to select S/U grading or change from S/U to letter grading.
April 3	Monday		FA17 Registration begins for all new students FA17 Registration begins for all GRAD students
April 5	Wednesday		<u>Second-half semester MBA courses: last day to drop or change to audit.</u>
April 5	Wednesday		<b>SP17: last day to drop or change to audit (Non-MBA courses).</b>
April 11	Tuesday		Second-half-semester classes: last day to drop or change to audit (non-MBA).
April 12	Wednesday		Incompletes lapse into "F" if no grade submitted from fall and winter.
April 13	Thursday	11 p.m.	Classes end for Easter Break. Housing remains open.
April 14	Friday		<b>Good Friday: no classes.</b>
April 17	Monday	7 a.m.	Classes Resume.
April 19	Wednesday		Celebrate Carroll.
April 26	Wednesday		<u>Second-semester MBA classes: end</u>
May 3	Wednesday		Last day of classes.
May 4	Thursday		Reading Day: no daytime classes; final exams for Thursday evening & Tuesday/Thursday evening classes.
May 5 - 10	Fri. - Wed.		Final examinations.
May 11	Thursday	Noon	Campus Housing closes for students not participating in Commencement.
May 11	Thursday	1 p.m.	<b>Final grades due (for graduating students).</b>
May 13	Saturday	5 p.m.	Baccalaureate
May 14	Sunday		Commencement (UNDG and GRAD).
May 15	Monday	Noon	Campus Housing closes for students not participating in S117 (summer session one 2017).
May 16	Tuesday	9 a.m.	Final grades due.



**SUMMER SESSIONS 2017**

Summer Housing Information to be released

<b>S117</b>	<b>May 11 – June 2</b>	
May 2	Tuesday	<u>MBA courses begin</u> (Session One).
May 10	Wednesday	<u>MBA courses Session One: last day to add</u>
May 11	Thursday	Classes begin ( <b>New registrations and schedule changes can be done online</b> ).
May 15	Monday	Last day to add (Non-MBA courses).
May 18	Thursday	Last day to select S/U grading or change from S/U to letter grading.
May 19	Friday	Last day to drop or change to audit.
May 22	Monday	Physical Therapy courses begin.
May 29	Monday	Memorial Day - no classes.
May 31	Wednesday	<u>MBA courses Session One: last day to drop or change to audit.</u>
June 2	Friday	S117 Ends (Need to watch individual course dates).
June 4	Sunday	Last day to decrease or cancel meal plans. <a href="https://my.carrollu.edu/ICS/Departments/Dining_Services/Meal_Plans.jnz">https://my.carrollu.edu/ICS/Departments/Dining_Services/Meal_Plans.jnz</a> .
<b>S217</b>	<b>June 5 – July 17</b>	
June 5	Monday	Classes begin ( <b>New registrations and schedule changes can be done online</b> ).
June 12	Monday	Last day to add (Non-MBA courses).
June 19	Monday	Last day to select S/U grading or change from S/U to letter grading.
June 21	Wednesday	<u>MBA Session One: courses end.</u>
June 26	Monday	Last day to drop classes or change to audit.
June 27	Tuesday	<u>MBA Session Two: courses begin</u>
July 4	Tuesday	4 <sup>th</sup> of July Holiday- no classes.
July 12	Tuesday	<u>MBA courses Session Two: last day to add.</u>
July 17	Monday	S217 Ends (Need to watch individual course dates).
<b>S317</b>	<b>July 18 – August 23</b>	
July 18	Tuesday	Classes begin ( <b>New registrations and schedule changes can be done online</b> ).
July 25	Tuesday	Last day to add (Non-MBA courses).
August 1	Tuesday	Last day to select S/U grading or change from S/U to letter grading.
August 2	Wednesday	<u>MBA courses Session Two: last day to drop or change to audit.</u>
August 8	Tuesday	Last day to drop classes or change to audit.
August 18	Friday	Physical Therapy courses end.
August 23	Wednesday	<u>MBA Session Two: courses end.</u>
August 23	Wednesday	S317 Ends (Need to watch individual course dates).

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## Financial Aid

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**Financial Aid**[About Financial Aid](#)

Tuition and Fees

**About Financial Aid**

The U.S. Department of Education has stated that Carroll University may participate in those student financial assistance programs authorized by Title IV of the Higher Education Act of 1965, as amended. You may contact the Director of Financial Aid at the telephone number or address listed below, if you would like to review a copy of the most current Program Participation Agreement.

Financial aid is available to students who are enrolled at least on a half-time basis per semester (some students may qualify for a Federal Pell Grant if enrolled less than half time), are degree seeking, and meet all other guidelines established by the University and the U.S. Department of Education. For financial aid purposes, half-time status is 6-8 credit hours per semester, three-quarter-time is 9-11 credit hours per semester and full-time status is a minimum of 12 credit hours per semester. The University participates in four types of financial aid programs: scholarships, grants, loans, and employment. The following titles provide more information about the various financial aid programs and how to apply. More detailed information is available on the University's Web site and upon request by contacting the Office of Financial Aid at 262.524.7296 locally, or at 1-800-Carroll.

You may also write to us at the following address:

Carroll University Office of Financial Aid,  
100 N. East Ave.,  
Waukesha, WI  
53186.

Note: Students may be eligible for student financial assistance program funds for attending a study abroad program that is approved for credit by the Carroll University Registrar. For more information, contact the Financial Aid Office as described above.

**Application for Aid**

The University uses the results of the Free Application for Federal Student Aid (FAFSA) as the basis for determining a student's eligibility for federal, state, and institutional funds. The FAFSA must be entirely completed and sent to the federal processor. Carroll University's name and Title IV code (003838) must be listed on the FAFSA in order for the University to receive a copy of the results. Students are encouraged to complete the FAFSA by April 1 for September enrollment, and by November 1 for January enrollment.

In order to receive financial aid, students must have their financial aid paperwork (including the FAFSA and any additional information required by the Financial Aid Office) completed by the following dates for the applicable term:

Summer	June 15
Fall	November 15
Spring	April 15

The information reported on the FAFSA is used to determine a student's expected family contribution (EFC), an amount the student and parent(s) or spouse are expected to contribute toward their education. The EFC is subtracted from a student's cost of attendance to determine his/her financial need. A financial aid counselor will attempt to put together a financial aid package that comes as close as possible to meeting a student's demonstrated financial need. However, due to limited funds, the amount awarded to a student may fall short of the amount for which she/he needs. The University attempts to distribute financial aid to students in a fair and equitable manner among the various student populations.

The Department of Education (or Carroll) may select students for a process known as verification. When selected for verification, the student and parent(s) or spouse must complete a verification document and submit additional documents which may include either using the IRS Data Retrieval when submitting the FAFSA or submit signed tax return transcripts to the Carroll University Financial Aid Office, along with additional documentation. The Financial Aid Office will contact the student to request information needed to complete this process. The University is required by the U.S. Department of Education to review the documents to ensure the information reported on the FAFSA is correct.

**Scholarships**

Carroll University offers a variety of merit scholarships to recognize outstanding student accomplishments. There are two categories of scholarships: academic and additional. For scholarship information, please see the University's Web site.

**Grants**

Grants are awarded based upon a student's demonstrated financial need as determined by the Free Application for Federal Student Aid (FAFSA). A student can receive a grant from the Federal Government, the State of Wisconsin (if a Wisconsin resident), and Carroll University. Like scholarships, grants are considered gift aid that do not need to be repaid. For additional grant information, please see the University's Web site.

**Loans**

Loan options available to eligible students and parents include the Federal Direct Student Loan and the Federal PLUS parent loan, as well as from private lenders. Students who obtain a loan must adhere to the terms of the loan. These

terms include repayment, entrance and exit counseling, and conditions under which students may obtain deferral or partial loan repayment for volunteer service. For additional loan information, please see the University's Web site.

### **Student Employment**

University employment opportunities allow students to work part-time on campus, earn an hourly wage and receive a monthly paycheck while attending Carroll. Students may work from approximately five to fourteen hours each week. The number of hours a student may work depends upon the student's financial aid award. Students eligible for federal work-study are given first preference for employment positions. Students eligible for federal work study are encouraged to participate in off-campus community service positions. For additional student employment information, please see the University's Web site.

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**Tuition and Fees**

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## Full-Time Tuition Fee

### Full-Time (12-19 credits)

The charges listed begin with the Summer I 2016 session and continue through the Spring 2017 semester. Full-time status is determined at the end of the first week of classes on the date indicated in the calendar as the last day to add classes.

Tuition	
Tuition per year .....	\$29,662.00

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Full-Time Tuition Fee

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**Residence Hall Room Fees****Residence Hall Room****Carroll University Room Plans Semester/Term**

<b>Residence Hall</b>	<b>Fee</b>
Triple Room - Traditional Halls	\$1,832.00
Double Room - Traditional Halls	\$2,465.00
Single Room - Traditional Halls	\$2,965.00
Double Room in Suite - New Hall	\$3,068.00
Single Room in Suite - New Hall, Pioneer, Frontier and Prairie	\$3,440.00
Single Apartment - Hartwell Apartments	\$3,344.00
Double Apartment - Carroll, College and Hartwell Apartments	\$3,109.00
Single room in Triple Apartment - Carroll St., College Ave., and Hartwell	\$3,227.00
Double room in Triple Apartment - Carroll St., College Ave., and Hartwell	\$2,992.00
Summer Housing (non-Carroll student, monthly)	\$760.00
May Term (Carroll student, non-academic)	\$480.00
Summer II (Carroll student)	\$960.00
Summer III (Carroll student)	\$960.00
January Housing (Carroll student, non-academic)	\$480.00

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**Meal Plan Fees****Resident Meal Plans and Rates (FA16 and SP17)**

Plan	Cost/Semester	My Meal Plan	Meals/Semester	Dining Dollars/Semester
C	\$1,839.00	140 My Meals Block Plan	140 meals/semester	\$250.00
E	\$2,037.00	160 My Meals Block Plan	160 meals/semester	\$350.00
G	\$2,188.00	180 My Meals Block Plan	180 meals/semester	\$375.00
H	\$2,467.00	220 My Meals Block Plan	220 meals/semester	\$425.00

**Commuter Meal Plans and Rates (FA16 and SP17)**

Plan	Cost/Semester	My Meal Plan	Meals/Semester	Dining Dollars/Semester
R	\$479.00	30 My Meals Block Plan	30 meals/semester	\$100.00
S	\$886.00	60 My Meals Block Plan	60 meals/semester	\$150.00
T*	\$1,288.00	90 My Meals Block Plan	90 meals/semester	\$200.00
U*	\$1,288.00	45 My Meals Block Plan	45 meals/semester	\$650.00
V*	\$1,288.00	60 My Meals Block Plan	60 meals/semester	\$500.00
W*	\$1,288.00	75 My Meals Block Plan	75 meals/semester	\$350.00

**\*Grand Avenue Plans - also available for juniors and seniors in Frontier, Pioneer, and Prairie Halls.**

**Summer Meal Plans and Rates (Summer 16)**

Plan	Cost/Summer	my meal Plan	Meals/Summer	Dining Dollars/Summer
6	\$445.00	30 My Meals Block Plan	30 meals for the summer	\$150.00
7	\$655.00	45 My Meals Block Plan	45 meals for the summer	\$225.00
8	\$795.00	60 My Meals Block Plan	60 meals for the summer	\$275.00



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**BookCHARGE Fee****Charge Textbooks and Supplies to your Student Account**

Students who wish to use BookCHARGE are required to sign the BookCHARGE Authorization Form.

BookCHARGE allows students to charge textbooks and supplies, up to \$750.00 each semester, directly to their student account on the following conditions. BookCHARGE is available, 10 business days prior to the start of the semester and ends 10 business days after the semester begins, to currently enrolled students who have a PiONEer Card and have no holds on their student account. BookCHARGE is available for rental textbooks, but not for the purchase of textbooks online. Any fees you incur for not returning a rental textbook will be charged to the credit card on file with Follett, and not your student account. You are allowed to charge books, and supplies to your student account up to \$750 per semester. Please be responsible about your purchases. Remember, your charges will be reflected on your student account and will be billed to you.

BookCHARGE purchases at the bookstore will be reflected on your student account on the next billing statement. As with other charges to your student account, unpaid bookstore charges might result in late fees, registration and transcript holds.

The cost of textbooks varies. It is estimated that a student spends an average of \$1078.00 per year for books.

**Tuition and Fees**

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**Other Fees and Deposits****Other Fees and Deposits**

Housing deposit (credited to student's account) \$100.00  
This sum is required to be submitted with the housing contract. When this deposit is paid, residence hall reservations are confirmed.

Housing cancellation penalty \$500.00

**A \$500 cancellation fee will be assessed if a student cancels a housing license agreement, withdraws, or is dismissed from the university.**

A prorated fee will be implemented for cancellations occurring during the summer of 2016 based upon the following schedule:

Deposit post date – April 15, 2016	loss of \$100.00 housing deposit
April 16 – June 30, 2016	loss of \$100.00 housing deposit and \$250 cancellation fee
July 1, 2016 and after	loss of \$100.00 housing deposit and \$500 cancellation fee

Housing activity fee \$25.00 per semester non-refundable

Housing room change fee \$100.00

This fee will be assessed if a student changes his/her room assignment after the academic year begins.

Confirmation Deposit - Physical Therapy \$200.00  
Direct Admit (NON-REFUNDABLE)

Confirmation Deposit (credited to student's account) \$200.00

This sum is due and payable within 30 days after the date the applicant is notified of admission to the University or after financial aid is determined for those who are aid applicants. This deposit is collected only from new full-time students or from part-time students moving to full time status. It is generally not refundable.

Registration and Orientation fee \$270.00

New full-time students will be assessed this fee on their first billing. It is generally not refundable.

Comprehensive fee \$576.00

This fee is collected from full-time undergraduate students and is used directly by the University to address needs common to the student body.

Activity fee \$150.00

This fee is collected by the University at the request of the Student Senate and is distributed by the Senate to eligible student organizations.

Nursing program fee \$798.00

This fee is assessed to all full-and part-time nursing students with a Nursing major.

Professional liability insurance \$20.00

This fee is assessed to Health Sciences Majors who are required to carry professional liability insurance when enrolled in any clinical course.

This fee is assessed to Education Majors enrolled in EDU409, EDU419 or EDU423.

Completion fee \$135.00

The fee will be charged whether a student participates in the graduation ceremony or not, to cover diplomas, diploma covers, degree audits and other associated costs. This fee applies to undergraduate and graduate students.

Parking permit for resident Carroll students \$110.00-\$318.00

Parking Fines-(Lower Offense) \$25.00/\$50.00

Parking Fines-(Upper Offense) \$42.00/\$84.00

Resident students may apply for parking permits for residence hall lots. Because parking spaces are limited, they are assigned by the public safety office according to established criteria.

Stop Payment Fee (subject to change based on bank fees) \$33.50

NSF Fee (subject to change based on bank fees) \$25.00

**Late Fees:**

**Non-Payment Plan Late Fees:**

Late Fees in the amount of \$35.00 will be assessed monthly on any overdue balance (overdue balance: unpaid balance that is over 30 days old) of \$20.00 or greater.

**Monthly Payment Plan (myPAYPLAN):**

Enrollment Fee: \$50.00 due upon enrollment - per semester (Non Refundable)

A Late Fee of \$35.00 per month will be assessed only if the scheduled monthly installment payment is not received by the due date.

Past due accounts occur when the payment terms on your account have not been met. The University has the right to take steps to collect the past due amounts including, but not limited to, the following: prohibiting the student from scheduling classes for the following semester; withholding course credits; academic transcripts, and diploma until the balance is paid; turning over the student's account to a collection agency; and taking legal action. By enrolling in a payment plan, the student authorizes the University to release financial information about his/her account to those concerned with collecting the balance owing. If the University incurs any expenses in collecting the student's account, the student shall pay all the University's cost of collection. This includes, but is not limited to, a collection agency fee which may be based on a percentage at a maximum of 30% of the debt, and/or reasonable attorney's fees. A collection agency acting on behalf of the University may contact students regarding any outstanding balance by means of an automated calling system or a pre-recorded message at any telephone number associated with the student's account including wireless telephone numbers.

Non-refundable registration fee for International and Off-Campus Programs	\$250.00
Study Abroad Programs Exchange and Affiliated Programs	\$350.00
Unaffiliated Programs	\$350.00
Summer/J-term Study Abroad Fee	\$150.00
Auditing (per credit)	\$114.00
Auditing (Nursing-per credit)	\$120.00
Aviation Science Course Fee for courses with AVS designation	\$3500.00
Credit for work experience (per credit)	\$201.00
Credit for work experience (Nursing-per credit)	\$235.00
Education Fee (EDU409 & 4190 EdTPA)	\$300.00
ESL Listening and Speaking (ESL 121/221/321) per course	\$1420.00
ESL Reading and Writing (ESL 122/222/322) per course	\$2365.00
ESL Special Topics (ESL 123/223/323) per course	\$944.00
FFEE Program Fee	\$325.00
Housing Early Arrival/Late Departure Fee	\$75.00
Housing Late Application Fee	\$25.00
International Student Orientation Fee	\$120.00
Internship (per credit)	\$381.00
Internship (Nursing-per credit)	\$483.00
Internship: Written Project (per credit)	\$201.00
Internship: Written Project (Nursing-per credit)	\$235.00
Credit by examination (per credit)	\$198.00
Credit by examination - Nursing courses (per credit)	\$235.00
Prior Learning Assessment (per credit)	\$201.00
Prior Learning Assessment (Nursing-per credit)	\$235.00
Tuition per credit for additional credits - non-nursing (greater than 19 credits)	\$381.00
Tuition per credit for additional credits - nursing (greater than 19 credits)	\$483.00
Undergraduate tuition for OCICU online courses	\$489.00

Course fees (per course) \$74.00 - \$155.00

These fees are required for classes with expendable material costs, as well as other costs unique to the course, and include, but are not limited to, lab courses.

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**Athletic Training Program Fees**

Junior Program Fee	\$690.00
Senior Program Fee	\$577.00

Carroll University Catalog > Undergraduate Catalog > Financial Aid > Tuition and Fees > [Applied Music Fees](#)

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## Applied Music Fees

The academic year charges for individual instruction in voice, piano, organ, strings, winds and percussion and some music capstone courses are:

One-half hour lesson per week	\$650.00
One hour lesson per week	\$1300.00

No refunds of applied music fees will be made after the second week of classes.

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**Additional Expenses - Nursing Program**

Nursing is a practice discipline and students enrolled in the nursing program must plan for additional costs that are directly related to the program. These include uniforms, nursing textbooks, health requirements, CPR certification, liability insurance, and transportation costs associated with clinical experiences.

- Uniform cost will vary depending on vendor used. Uniform patch is available through the bookstore. Also required for clinical nursing courses: watch with a second hand, white nurses shoes (or all white athletic shoes), bandage scissors and stethoscope.
- Students are required to carry professional liability insurance when enrolled in any clinical course. Cost varies according to plan selected and agency used.
- Nursing pin. Cost varies.
- For graduating seniors desiring registration and licensure in Wisconsin:
  - Registration fee for NCLEX exam
  - Application for State Board
  - Work permit for graduates working in Wisconsin
  - State Board registration photograph
  - Class composite photograph (optional)

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**Payment of Student Accounts**

Payments can be made online through ePAY at [my.carrollu.edu](http://my.carrollu.edu).

Visa, MasterCard, American Express, Discover and eCheck are accepted. Full and partial payments can be made any time before the due dates. Payments will also be accepted through the mail and in person. For security reasons, credit card payments will no longer be accepted via telephone.

Credit and debit card transactions may be subject to a convenience fee.

Charges for tuition, fees, room and board are the obligation of the student upon registration and are to be paid no later than the first day of the semester. A student may attend classes, take examinations, and be entitled to the benefits of a fully registered student only when all charges have been paid or satisfactory financial arrangements have been approved by the Business Office.

Course and Fee statements will be available online at [my.carrollu.edu](http://my.carrollu.edu). Sign in with your user name and password, click on Student>Billing and Payment>View Bill. Full payment of the balance must be made by the first day of the semester unless payment plan arrangements have been approved by the Business Office.

**Due Dates are:**

Summer Session I, 2016	May 5, 2016
Summer Session II, 2016	May 27, 2016
Summer Session III, 2016	July 12, 2016
Fall 2016	September 8, 2016
Winter 2017	January 2, 2017
Spring 2017	January 24, 2017
Summer Session I, 2017	May 11, 2017
Summer Session II, 2017	June 5, 2017
Summer Session III, 2017	July 18, 2017

**Late Fees:****Non-payment Plan Late Fees:**

Late Fees in the amount of \$35.00 will be assessed monthly on any overdue balance (overdue balance: unpaid balance that is over 30 days old) of \$20.00 or greater.

**Monthly Payment Plan (myPAYPLAN):**

Enrollment Fee: \$50.00 due upon enrollment - per semester (Non-Refundable)

A Late Fee of \$35.00 per month will be assessed only if the scheduled monthly installment payment is not received by the due date.

Past due accounts occur when the payment terms on your account have not been met. The University has the right to take steps to collect the past due amounts including, but not limited to, the following: prohibiting the student from scheduling classes for the following semester; withholding course credits; academic transcripts, and diploma until the balance is paid; turning over the student's account to a collection agency; and taking legal action. By enrolling in a payment plan, the student authorizes the University to release financial information about his/her account to those concerned with collecting the balance owing. If the University incurs any expenses in collecting the student's account, the student shall pay all the University's cost of collection. This includes, but is not limited to, a collection agency fee which may be based on a percentage at a maximum of 30% of the debt, and/or reasonable attorney's fees. A collection agency acting on behalf of the University may contact students regarding any outstanding balance by means of an automated calling system or a pre-recorded message at any telephone number associated with the student's account including wireless telephone numbers.

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Late Fees in the amount of \$35.00 will be assessed monthly on any overdue balance (overdue balance: unpaid balance that is over 30 days old) of \$20.00 or greater.

**Monthly Payment Plan (myPAYPLAN):**

Enrollment Fee- \$50.00 due upon enrollment - per semester (non-refundable)

A Late Fee of \$35.00 per month will be assessed only if the scheduled monthly installment payment is not received by the due date.

Past due accounts occur when the payment terms on your account have not been met. The University has the right to take steps to collect the past due amounts including, but not limited to, the following: prohibiting the student from scheduling classes for the following semester; withholding course credits; academic transcripts, and diploma until the balance is paid; turning over the student's account to a collection agency; and taking legal action. By enrolling in a payment plan, the student authorizes the University to release financial information about his/her account to those concerned with collecting the balance owing. If the University incurs any expenses in collecting the student's account, the student shall pay all the University's cost of collection. This includes, but is not limited to, a collection agency fee which may be based on a percentage at a maximum of 30% of the debt, and/or reasonable attorney's fees. A collection agency acting on behalf of the University may contact students regarding any outstanding balance by means of an automated calling system or a pre-recorded message at any telephone number associated with the student's account including wireless telephone numbers.



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**How payments are applied to student accounts**

Credits to student's accounts are applied in the following manner:

Financial aid, in the form of grants and scholarships, is the first item credited to the student's account and will be applied in the following order:

Tuition, program fees, other fees, board charges, room charges.

Cash payments (other than student loans) will be applied to fines and incidental charges.

The remaining cash and/or loan proceeds made to student accounts are applied against charges not covered by grants and scholarships in the following order:

Tuition, program fees, other fees, board charges, room charges.

Information regarding payment plan options may be obtained from the Business Office of the University. Students are invited to contact the Business Office if they have any questions concerning payments due to the University.

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**Veteran's Benefits**

Veterans eligible for education benefits should apply with the appropriate agency prior to registering for classes. After applying for benefits, veterans should contact the institution's Veterans Certifying Official to notify them of their intent to collect benefits. Federal benefits paid under chapters 30, 35, 1606, or 1607 will be paid directly to the student. Recipients of such payments are advised to anticipate a delay of about two months before receiving the first payment. Students receiving benefits under these chapters should be prepared to pay all expenses since payments are made directly to the veteran. Chapter 33 (Post 9-11 GI Bill) and the Yellow Ribbon Benefits will be paid directly to the higher education institution.

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**Part-time (less than 12 credits) Tuition**

Undergraduate course per credit (Non-Nursing)	\$381.00
Nursing course per credit	\$483.00
*Undergraduate OCICU course per credit	\$489.00
Auditing per credit (Non-Nursing)	\$114.00
Auditing Nursing per credit	\$120.00
Credit by examination-per credit (Non-Nursing)	\$198.00
Credit by examination – Nursing courses-per credit	\$235.00

These charges do not apply to full-time students who drop a course after the first week of a semester.

\*Please refer to the University's Web site for information pertaining to Carroll's online consortium (OCICU) courses.

To verify the refund date for a particular OCICU course you have registered for, check the section comments of that course for refund details. Each course will follow its own refund schedule.

Students contemplating dropping and substituting courses involving online programs may substitute another section of the same course as long as it is in the same term ("term" applies to the period during which the course is offered, beginning to ending date). Traditional courses and courses offered through the Online Consortium of Independent Colleges and Universities (OCICU) have different start and end dates and drop policies even though they may be equivalent courses. Students contemplating dropping or substituting an OCICU course with a traditional course or an OCICU course must contact the registrar at 262.524.7208 or e-mail [ahandfor@carrollu.edu](mailto:ahandfor@carrollu.edu) for policy and cost information.

**Late Fees:**

**Non-payment Plan Late Fees:**

Late Fees in the amount of \$35.00 will be assessed monthly, on any overdue balance (overdue balance: unpaid balance that is over 30 days old) of \$20.00 or greater.

**Monthly Payment Plan (myPAYPLAN):**

Enrollment Fee: \$50.00 due upon enrollment - per semester (Non Refundable)

A Late Fee of \$35.00 per month will be assessed only if the scheduled monthly installment payment is not received by the due date.

Past due accounts occur when the payment terms on your account have not been met. The University has the right to take steps to collect the past due amounts including, but not limited to, the following: prohibiting the student from scheduling classes for the following semester; withholding course credits; academic transcripts, and diploma until the balance is paid; turning over the student's account to a collection agency; and taking legal action. By enrolling in a payment plan, the student authorizes the University to release financial information about his/her account to those concerned with collecting the balance owing. If the University incurs any expenses in collecting the student's account, the student shall pay all the University's cost of collection. This includes, but is not limited to, a collection agency fee which may be based on a percentage at a maximum of 30% of the debt, and/or reasonable attorney's fees. A collection agency acting on behalf of the University may contact students regarding any outstanding balance by means of an automated calling system or a pre-recorded message at any telephone number associated with the student's account including wireless telephone numbers.

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**Payment Options for Part-time Students**

**DUE DATES:** for payment in full of tuition/fees, room and board each semester/session:

Summer I, 2016	May 5, 2016
Summer II, 2016	May 27, 2016
Summer III, 2016	July 12, 2016
Fall 2016	September 8, 2016
Winter 2017	January 2, 2017
Spring 2017	January 24, 2017
Summer I, 2017	May 11, 2017
Summer II, 2017	June 5, 2017
Summer III, 2017	July 18, 2017

**PAYMENT OPTIONS:****Summer 2016, Winter 2017 and Summer 2017**

There are no payment plans available for the summer sessions or the winter session. Payment is due in full the first day of the session as noted above.

**Fall 2016**

1. Pay in full on or before the first day of the semester.
2. Enroll (online) in a 4, 5 or 6 month payment plan agreement for Fall 2016. Students may enroll in a 4, 5 or 6 month payment plan agreement beginning June 15, 2016. A \$50.00 enrollment fee is due upon enrollment-per semester. (Non-Refundable). Be prepared, however, to pay past-due installment amounts as well as a \$50.00 enrollment fee at the time of enrollment. If you enroll in a monthly payment plan after the scheduled billing date (scheduled billing date is the fifth day of July, August, September, October, November and December) the system will require payment of the \$50.00 enrollment fee, a payment for the month in which you are enrolling (even though the due date is not until the twentieth of the month) as well as any past-due installments. For example: On August 6 you decide that you would like to enroll in a six-month payment plan for the fall. The six-month plan runs from July through December. Upon enrollment, the system will require payment of the \$50.00 enrollment fee, the August scheduled installment and the past-due July scheduled installment.

- 6 month plan: July through December
- 5 month plan: August through December
- 4 month plan: September through December

myPAYPLAN will automatically adjust for recalculations of tuition, fees, and other expenses and financial aid. Plans will run per semester.

3. Provide a letter of company sponsorship and/or third party billing to the Carroll University Business Office on or before the first day of the semester. This letter must confirm payment in full regardless of the student's performance in the course.

4. Provide a letter to the Carroll University Business Office, on or before the first day of the semester, from your employer verifying reimbursement. Student will be required to sign a payment agreement. Payment will be due in full by January 4, 2017. A monthly Late Fee of \$35.00 will be assessed if payment is not received by the due date. Please contact Judy for information regarding this option at 262-524-7698 or at [jedl@carrollu.edu](mailto:jedl@carrollu.edu).

**Spring 2017**

1. Pay in full on or before the first day of the semester.
2. Enroll (online) in a 4, 5 or 6 month payment plan agreement for Spring 2017. Students may enroll in a 4, 5 or 6 month payment plan agreement beginning December 15, 2016. A \$50.00 enrollment fee is due upon enrollment-per semester. (Non-Refundable). Be prepared, however, to pay past due installment amounts as well as a \$50.00 enrollment fee at the time of enrollment. If you enroll in a monthly payment plan after the scheduled billing date (scheduled billing date is the fifth of January, February, March, April, May and June) the system will require payment of the \$50.00 enrollment fee, a payment for the month in which you are enrolling (even though the due date is not until the twentieth of the month) as well as any past-due installments. For example: On February 6 you decide to enroll in a six-month payment plan for the spring semester. The six month plan runs from January through June. Upon enrollment, the system will require payment of the \$50.00 enrollment fee, the February scheduled installment and the past due January scheduled installment.

- 6 month plan: January through June
- 5 month plan: February through June
- 4 month plan: February through May

myPAYPLAN will automatically adjust for recalculations of tuition, fees, and other expenses and financial aid. Plans will run per semester.

3. Provide a letter of company sponsorship and/or third party billing to the Carroll University Business Office on or before the first day of the semester. This letter must confirm payment in full regardless of the student's performance

in the course.

**4.** Provide a letter to the Carroll University Business Office, on or before the first day of the semester, from your employer verifying reimbursement. Student will be required to sign a payment agreement. Payment will be due in full by May 24, 2017. A monthly Late Fee of \$35.00 will be assessed if payment is not received by the due date. Please contact Judy for information regarding this option at 262-524-7698 or at [jedl@carrollu.edu](mailto:jedl@carrollu.edu).

Refer to the Graduate Catalog for information regarding the graduate programs.

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**Internship Fees**

The University offers three types of internships. It is the students' responsibility to register for the appropriate internship course.

1. Internship with approval and placement by the program instructor (Course 480 or 380) . . . . . \$381.00 per credit  
\$483.00 per credit - Nursing
2. Credit for work experience approved by the program instructor (Course 483) . . . . . \$201.00 per credit  
\$235.00 per credit - Nursing
3. Written project completed at work site and approved by the program instructor . . . \$201.00 per credit  
\$235.00 per credit - Nursing

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**Refund Policies**

Full-time status is determined at the end of the first week of classes on the date indicated in the calendar as the last date to add classes. A full-time student who drops below 12 credits after this date will continue to be billed at full-time rates unless the student withdraws from the University.

To begin the withdrawal process the student must fill out the withdrawal form. This form may be obtained from the Office of Student Success, located in Voorhees. This form must be returned to the Office of Student Success so that the University can calculate the refund, if any, of institutional charges and determine the amount of aid that may need to be refunded to the various sources.

Refunds may be available for students with Title IV federal aid who withdraw from the University.

Students with federal aid who withdraw from the University will have their Title IV aid recalculated in accordance with guidelines established by the U.S. Department of Education derived from the October 7, 1998, Reauthorization of the Higher Education Act.

The federal formula provides a return of the Title IV aid if the student received federal financial assistance in the form of a Pell Grant, Supplemental Education Opportunity Grant, TEACH Grant, Iraq Afghanistan Service Grant, Perkins Loan, Subsidized and Unsubsidized Stafford Loans or PLUS Loans and withdraws on or before completing 60% of the semester. The percentage of Title IV aid earned is equal to the number of calendar days completed in the semester divided by the number of calendar days in the semester. Scheduled breaks of five or more days are excluded.

Pro-rated Title IV federal aid is returned to the respective federal programs in the following order:

1. Federal Unsubsidized Stafford Loan Program
2. Federal Subsidized Stafford Loan Program
3. Federal Perkins Loan Program
4. Federal PLUS Loan Program
5. Federal Pell Grant Program
6. Federal SEOG Program
7. TEACH Grant Program
8. Iraq Afghanistan Service Grant
9. Any other assistance awarded to the student under programs authorized by Title IV HEA

For purposes of repayment, if funds are released to a student because of a credit balance on the student's account, then the student may be required to repay some of the federal grants released to the student. Until the repayment is resolved, the student is ineligible for further Title IV assistance. These refund policies are based upon the rules and regulations of the U.S. Department of Education and are subject to change. Worksheets used to determine the amount of refund or return of Title IV aid are available upon request at the Carroll University Business Office.

Students who withdraw and have Carroll aid and/or aid other than Title IV will earn this aid according to the following schedule:

FALL 2016	Percentage	SPRING 2017	Percentage
Withdraw on or before:		Withdraw on or before:	
Wednesday, September 7, 2016	0%	Monday, January 23, 2017	0%
Monday, September 19, 2016	20%	Monday, February 6, 2017	20%
Monday, September 26, 2016	40%	Monday, February 13, 2017	40%
Monday, October 3, 2016	60%	Monday, February 20, 2017	60%
Monday, October 10, 2016	80%	Monday, February 27, 2017	80%
Tuesday, October 11, 2016 (on or after)	100%	Tuesday, February 28, 2017 (on or after)	100%

Financial aid for part-time students will be adjusted to reflect the final number of credits for which the student is enrolled on Thursday, September 15, 2016 for the fall semester or on Tuesday, January 31, 2017, for the spring semester. If enrollment on either one of these dates is for fewer than six credits, no financial aid will be available for the term unless the student is eligible for a Federal Pell Grant.

Although the Financial Aid Census date (adjustment date for financial aid) is one week after the semester begins, we are required by federal law to review any students who received the Federal Pell Grant. Under federal regulations, students can only receive Federal Pell Grants for the classes they attended. The regulation states the following: If a student begins attending some but not all of his or her classes, the Financial Aid Office will have to recalculate the student's Pell Grant award based on the student's actual enrollment status. Therefore, if you receive a Federal Pell Grant, we will review your enrollment status throughout the semester.

**Tuition refunds:**

- Full or part-time students who withdraw from the University may be eligible for a tuition refund.
- Part-time students who drop courses may be eligible for a tuition refund.

Percentage Summer I, 2016 - Withdrawal on or before	Summer II, 2016 - Withdrawal on or before	Summer III, 2016 - Withdrawal on or before
100% Wednesday 5/4/2016	Thursday 5/26/2016	Monday 7/11/2016





available in the Office of International Education.

**Refund policy for military reservists called to active duty:** The University recognizes the sacrifices that those in the armed services make while serving our country. We are proud to have these individuals as a part of our campus community and therefore maintain the following policy:

- The student must provide the Registrar's Office copies of official military orders. The student will then be automatically withdrawn from all of his/her courses for the given semester. The academic record will reflect the non-punitive "W."
- The student will be eligible for a full refund for tuition and course fees for any courses that are not completed during that semester/session.
- Any room and board charges will be prorated based on the date in the semester the student is required to leave and the remaining amount will be refunded.

All students adding or dropping a course must do so in writing through the Registrar's Office. Refunds are based on the date of the postmark of withdrawals sent by mail or on date of delivery of those brought in personally to the Registrar's office. If a student drops from a credit class to an audit, the refund will be based on the credit course fee according to the refund policy. If a class is cancelled due to lack of enrollment, students registered for that class will be given a full refund.

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**Student Affairs**[Counseling Services](#)[Disability Policy for Students](#)[Diversity](#)[Student Health Center](#)[Insurance](#)[Intercollegiate Athletics](#)[Residence Life and Housing](#)[Dining Services](#)[Spiritual Life Program](#)[Student Activities](#)[Student Handbook](#)**Counseling Services**

**Personal confidential counseling** is available to all full-time students at the Walter Young Center on the Carroll campus. Experienced, master's level therapists assist students with concerns regarding family, relationships, self-esteem, academic difficulties and other issues. The counseling center offers solution focused short term counseling. Students needing long-term treatment may be referred to a community resource.

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**Disability Policy for Students**

Carroll University is committed to making otherwise qualified students with disabilities full participants in its programs, courses, services and activities. We are guided by the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the ADA Amendments Act of 2008. Individuals will receive reasonable accommodations according to their needs and the documentation of their disability.

**Accommodation Request Process**

Accommodation requests should be made through the Walter Young Center. In order to be eligible for reasonable accommodation(s) from the University, the student must provide recent, relevant and comprehensive documentation of the disability, and the disability's impact on the student's participation in a course, program or activity. Should documentation from the student be inadequate or incomplete, the University reserves the right to require additional documentation. The cost of providing additional documentation will be borne by the student. However, if documentation is complete, but the University seeks a second professional opinion, the University will pay for the cost of that second opinion. The University also reserves the right to deny accommodation until necessary documentation is received. Requested accommodations will be approved or disapproved by the Disabilities Services Office at the Walter Young Center following a Reasonable Accommodation Conference. Any accommodation decision may be appealed in writing to the Vice President of Student Affairs within five (5) days of the decision. Any request for additional or modified accommodations must be made in writing to the Disabilities Services Office.

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**Diversity**

At Carroll University, diversity is a critical part of the campus culture. International and multicultural students, faculty, and staff are a vital component of the campus' richness. The university's goal is to create an environment that is open and welcoming for all people.

Carroll University is committed to supporting a diverse student body by providing comprehensive student support services and programs that allow students to explore diversity on campus, in the surrounding communities, and across the globe.

The Office of Cultural Diversity offers services and programs that support diversity such as cultural programming and activities, ally and mentor programs, diversity training, classroom presentations and more. These programs and services directly benefit the Carroll student body, faculty, and staff, as well as the Waukesha community. In turn, they provide the whole community with opportunities to gain a greater appreciation for the diversity represented on and off campus.

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**Student Health Center**

The Health Center at Carroll is staffed by board certified nurse practitioners who treat students for a variety of minor illnesses and injuries. The nurse practitioners can prescribe medications if needed, and do stock some medications in the Student Health Center. The nurse practitioners can also perform well physicals and pap smears, tuberculosis (TB) skin tests, complete travel forms, administer vaccines, perform drug screens, and order blood tests. There are charges to see the nurse practitioners, receive medications, have lab tests, vaccines, etc. All charges are billed to the student account or can be paid using Carroll Cash, unless the student has enrolled in the student insurance plan offered through the University. Students enrolled under a parent's insurance plan can request a receipt that can be submitted to their insurance to request reimbursement. Students needing further treatment are referred to local clinics, Waukesha Memorial Hospital, or their primary M.D. and are responsible for any associated costs.

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**Insurance**

Carroll University is committed to promoting good health to help ensure students' academic success. With this in mind, Carroll requires all full-time undergraduate and international students to have health insurance coverage.

- All full time undergraduate students are charged the health insurance fee upon registration.
- If a student has comparable coverage under another insurance policy, he or she may request a waiver from the University-sponsored health insurance plan.
- The deadline to waive the University-sponsored health insurance is one month after classes begin. Students who do not complete the online waiver before the deadline will be charged the health insurance fee.

The waiver form, plan and coverage information, and enrollment form can be found at <http://www.carrollu.edu/campuslife/hsinsurance.asp?nav=5763>

Many HMOs do not provide coverage outside of a particular area, so students and their parents should review their coverage carefully before waiving the University's plan.

**Student-Athletes:** The University carries an insurance policy that provides secondary coverage for the student athlete who may be injured during practice for, or while participating in, an intercollegiate athletic event. The student athlete is responsible for any deductible.

**Vehicles:** The University carries insurance on all of its vehicles. Any student receiving permission to drive a university vehicle must be approved by the University's insurance company before he or she drives any of its vehicles.

**Property:** Carroll University's property insurance policy covers damage to, or theft of, University owned property only. The University's policy does not cover personal property belonging to students.

**Liability:** Certain students are required to carry professional liability insurance when enrolled in clinical courses. These students include, but are not limited to, students enrolled in physical therapy, nursing and other health science programs.



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**Intercollegiate Athletics**

In the fall of 2016, Carroll University rejoins the College Conference of Illinois and Wisconsin. The Pioneers were previously members of the CCIW from 1955 through the spring of 1992. Current CCIW members include Augustana College, Carthage College, Elmhurst College, Illinois Wesleyan University, Millikin University, North Central College, North Park University and Wheaton College.

Carroll offers 22 intercollegiate athletic programs, including baseball, basketball (men and women), cross country (men and women), football, golf (men and women), indoor track and field (men and women), lacrosse (men and women), outdoor track and field (men and women), soccer (men and women), softball, swimming and diving (men and women), tennis (men and women) and volleyball.

In order to participate in intercollegiate athletics, student-athletes are required to maintain good academic and social standings, as defined in the student handbook. Academic minimums are set forth by the CCIW and the National Collegiate Athletic Association.

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**Residence Life and Housing**

Living on campus is an important part of the University educational experience. Campus housing is staffed with live in professionals and student resident assistants trained to engage students in the community and to act as resources.

**Housing Policies**

A. All full time undergraduate students who enroll at Carroll are subject to a junior residency requirement. This requirement remains in effect until a student has achieved senior standing (92 credits) by the beginning of the academic year. Exceptions to this policy include those students who are married or in a partnership legally recognized by a state, 23 years of age or older, are the primary caregiver to a child and those students who are living within fifty (50) miles from campus with parents or legal guardians during the academic year for which they are enrolled.

B. Each year, full time undergraduate students who wish to live off-campus must submit an application requesting to be released from the residency requirement and must receive approval from the Office of Residence Life and Housing. If the application is denied, the student will be subject to the residency requirement and will need to complete the appropriate application and license agreement for campus housing.

C. Students who have not been approved for release from the requirement and/or fail to submit an application and license agreement for campus housing will be charged for a standard double room and 140 Block meal plan until the terms of the residency requirement have been satisfied.

**Living Options**

Carroll University offers many on campus housing options including apartments and both traditional and suite style housing facilities to suit the needs of residential students. All campus housing includes basic cable TV service, high speed internet access, basic room furniture, mail delivery, and on site laundry facilities.

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**Dining Services**

Welcome to the my meals Campus Dining program at Carroll University. All my meals plans feature:

- A guaranteed block of meals for the semester – you decide how many!
- The flexibility to use your meal plan at all dining locations in the Campus Center and at Au Bon Pain during regularly scheduled and posted transfer hours.
- Dining Dollars that can be used anytime and anywhere, including Second Cup, Au Bon Pain and the Campus Center.

The my meals program offers students a multitude of options and maximum flexibility. Simply choose the plan that best fits your schedule and dining habits. We hope you'll agree that there is something for every appetite!

**Meal Plan Policies**

- A.** All Carroll students who are subject to the residency requirement are also required to participate in a Resident Meal Plan (Plans C, E, G or H). Students who have achieved junior standing (60 credits) by the beginning of the academic year and live in Frontier, Pioneer or Prairie halls may also select a Grand Avenue Block Plan (Plans T, U, V or W). Only students living in the Carroll Street, College Avenue and Hartwell Avenue Apartments are exempt from this policy.
- B.** Students may increase their meal plan at any time. The deadline to decrease or cancel a meal plan is one day prior to the first day of classes each semester as published in the University catalog and academic calendar.
- C.** Students who select a meal plan for fall semester will automatically be billed for the same plan for spring semester unless they make a change prior to the deadline.
- D.** Block meal plans offer a guaranteed number of meals per semester and may be used for guest meals. All meal plans include Dining Dollars and allow meal transfers during posted hours.
- E.** Each semester is 15 weeks in length and 18 meals will be served each week in the Pulse on Dining Main Dining Room.
- F.** Unused meals are not transferable from fall to spring semester. Fall semester meals may be used during Winter Session; spring semester meals may be used during Summer Session 1. Unused Dining Dollars will be transferred from fall to spring semester. Dining Dollars must be used by the end of Summer Session 1. Unused meal plans and dining dollars are not refundable.
- G.** Only currently enrolled Carroll students may participate in a meal plan. Students who withdraw or leave the University are no longer eligible to use their selected meal plan and will be held responsible for outstanding charges as published in the University catalog.

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**Spiritual Life Program**

The Office of the Chaplain provides opportunities for spiritual growth primarily for students through worship services, campus newspaper articles, student organizations, and personal contact by appointment, drop-in, or e-mail correspondence. The Fellowship of Christian Athletes and IntersVarsity Christian Fellowship are among the recognized student organizations on campus; students are welcome to form new organizations; and several other existing student organizations coordinate service projects that may be religious in nature (Habitat for Humanity, Circle K, Greek organizations). One large (seats 180) and one small (seats 18) chapel are regularly available on campus for individual or group gatherings. The Chaplain's Office also provides local contact information for area congregations and community service agencies.

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**Student Activities**

The Office of Student Activities enhances life on campus by providing students with social opportunities and numerous ways to get involved both on campus and in the community. There are many opportunities to get involved, including Student Senate, Fraternity and Sorority Life, intramurals, open recreation, or working for the Orientation, Student Activities or Recreation staffs. Student Activities provides programs and services ranging from orientation to community service projects to camping equipment rentals, the weekend programming series (CU @ Night), and much more.

**Recreation**

Carroll University is a member institution of the National Intramural Recreational Sports Association (NIRSA). The recreation program includes intramural sports, open recreation, group exercise classes, outdoor recreation activities, and cheerleading. Ganfield Gymnasium and Fitness Center hosts cardio equipment, resistance machines and free weight areas. The intramural sport program consists of several different activities including flag football, softball, men's and women's basketball, indoor soccer, and sand volleyball. The Recreation department also manages the "CORE store" where students, faculty, and staff can rent tents, coolers, snowshoes, and more for nominal fees.

**Student Organizations**

Student organizations play an active role in the life of the campus. There are over 50 recognized organizations on campus, including social fraternities and sororities, Student Senate, cultural diversity organizations, a Habitat for Humanity chapter, religiously affiliated groups, academically focused clubs, and many other groups. Student publications include a newspaper and literary magazine. WCCX is the campus radio station. A wide range of arts organizations is open to students, including some by audition.

**Volunteer Center**

Carroll's Volunteer Center is dedicated to connecting Carroll to the larger community through service and volunteering by working with existing service learning programs at Carroll and creating new partnerships for Carroll within the surrounding communities. Students can participate in one-time volunteer events or ongoing weekly volunteer placements at sites throughout the area.

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**Student Handbook**

The specific rules and regulations of Carroll University, published in the current Carroll Student Handbook and available to all students on the University's Web site, inform students of their responsibilities as well as their rights. The additional expectations associated with enrollment in specific academic programs are published separately.

To view the Student Handbook, [click here](#).

**Student Resources**[Student Affairs](#)**Student Academic Resources**» [Career Services](#)» [Learning Commons](#)[Notice of Non-Discrimination Policy](#)[Todd Wehr Memorial Library](#)[Public Safety](#)**Student Academic Resources****Allison Reeves Grabowski** **Director of Academic Resources****Torrie Boduch****Career Services Director****Lydia Guell****Career Services Advisor****Jenna Lassila****Senior Supplemental Instruction Coordinator****Meg Rein****Learning Commons Manager****Kathleen Volk****Academic Support Program Manager**

Academic Resources, located on the lower level of the Carroll library, provides free academic support services for Carroll students through Career Services and the Learning Commons.

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Learning Commons

**Career Services**

Career Services offers resume and cover letter assistance, help choosing a major, career assessment, career exploration, career focused workshops, interviewing strategies and searching for a job/internship.

**Online services include:**

- Pioneer Career Net: Students have access to internship and job postings, informational videos, career exploration resources, and event announcements
- Career Connect: Students connect with alumni to build their professional network
- Social Media: LinkedIn, Facebook, and Twitter

**Career Events:**

- Career & Networking Fair
- WorkForce Career & Internship Fair
- Etiquette Dinner



**Student Academic Resources**[Career Services](#)[Learning Commons](#)**Learning Commons****Math Center**

Math assistants hold weekly hours and help students as they prepare for quizzes and tests, complete assignments, and learn new concepts in their classes.

**Subject Tutors**

Subject tutors are available for many courses. Students can connect with a tutor during weekly drop-in hours or by completing a [tutor request form](#).

**Supplemental Instruction (SI)**

Supplemental Instruction (SI) is a peer education program that targets historically difficult courses. By employing a variety of collaborative learning strategies and group work, SI offers multiple options for learning challenging material. SI sessions are held in the Learning Commons or in designated classrooms around campus.

**Workshops**

The Learning Commons offers numerous academic workshops throughout the year focusing on study skills, test taking strategies, and other requested topics.

**Writing Center**

Writing assistants support students during any stage of the writing process including brainstorming, developing and organizing ideas, and revising final drafts.

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## Notice of Non-Discrimination Policy

### Notice of Non-Discrimination Policy

Carroll University does not discriminate in any manner contrary to law or justice on the basis of race, color, sex, age, religion, sexual orientation, national origin, disability or veteran's status in administration of its educational, admission, financial aid, athletic or other university policies and programs nor in the employment of its faculty and staff.

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**Nancy Bennett**  
**Joe Hardenbrook**  
**Susan Heffron**  
**Brittany Larson**  
**Susan Riehl**

**Electronic Resources and Systems Librarian**  
**Reference and Instruction Librarian**  
**Health & Science Librarian**  
**Access Services Librarian**  
**Public & Technical Services Librarian**

**Mission**

The mission of the Library is to serve students by providing access to information, by maintaining an environment that promotes a culture of academic excellence, and by offering instruction that fosters scholarship, integrity, independent intellectual growth, and the sophisticated information skills necessary for lifelong learning.

**Carroll's Library**

Libraries today are service institutions. Therefore, the Carroll Library provides not only access to appropriate print, video, sound and electronic resources, but also to a range of services geared toward student success. In addition to the materials held in or accessible through the Carroll Library, the Library also provides access to materials held across the state, the nation and the world through a variety of online services, nearly all of which are available from off campus. Strong consortia relationships and InterLibrary Loan ensure the availability of supplemental materials to enrich study and research for Carroll students.

The Library's instruction program teaches subject-specific research methods, including how to evaluate web sites and other information resources. Library instruction begins in the Cultural Seminar (CCS) program and continues as students work on assignments that require them to deal with a world of rapidly proliferating information and delivery systems. Librarians also assist students with course assignments and provide research assistance in the Information Commons or by appointments with their liaison. The Library's liaison program pairs librarians with faculty in specific subject areas for the purposes of acquiring the best resources for Carroll students, keeping the collections current, and teaching research skills specific to that subject. Liaisons also provide students with specialized assistance for in-depth research projects.

The Library provides a safe, clean and comfortable environment with state-of-the-art technology and study spaces to accommodate a variety of study styles: quiet spaces, individual carrels, large tables, group rooms, hard chairs, soft chairs and a coffee shop. The Library is open 101 hours per week when class is in session during the fall and spring semesters. Hours are reduced during the summer, winter, or when classes are not in session.

**Curriculum Materials Center (CMC)**

The CMC, located on the main level of the Library, is dedicated to the needs of education students on campus. The CMC collection is comprised of children's literature and curriculum materials appropriate for education levels K-12.

**University Archives**

The University Archives contains official records and publications of the institution, private papers, student and faculty publications, academic and curricula works, photographs, books, audio and video recordings and Carroll memorabilia that record and illustrate the history and life of the university. These materials provide historical information about the Trustees, the faculty, staff and student body over time. Items that are highly accessed, such as the student yearbooks and the Theatre Collection, have been digitized and are available online through the digital collections link on the Web site. New items are continually added to the digital collections site.

**Special Collections**

The Library's holdings include some unique, rare, out of print, and historic books which are all grouped as part of Special Collections. The materials in Special Collections include; Welsh Collection, Barclay Collection, Mother Goose Collection, Rufus and Charles King Collection, and Rare Books Collection. The subjects cover religious works, historical works on Scotland and Wales, classic literature, theatre, children's literature, and artistic works that date back as far as 1604. All materials are accessible to the Carroll Community and may be used in the Library. For assistance please contact the Archives Manager.

**Please [click here](#) to see the Library's home page on the university's web site for more information regarding the Library's services and policies.**

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Our mission is to assist the Carroll community in creating a safe and secure environment for learning, living, and working. The Department of Public Safety maintains staffing 24 hours a day including personnel in the dispatch office, Public Safety Officers, and off duty Waukesha County Sheriff Deputies. Public Safety both produces and co-sponsors various events during the year to help enhance the knowledge of the community related to personal safety both on campus and off.

Carroll University provides an annual security report that includes statistics for the previous three calendar years concerning reported crimes that occurred on campus; in certain off campus buildings or property owned or controlled by Carroll University; and on public property within or immediately adjacent to, and accessible from, the campus. The report includes institutional policies concerning campus security, such as policies concerning alcohol and other drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. The report also includes fire safety policies and statistics, emergency notification procedures, and protocols for missing persons.

[Click here](#) for a copy of the annual security report.

You can obtain a paper copy of this report by contacting the Public Safety Center located at 208 Wright Street, which is a half block east of Campus Center or by calling 262.524.7300.

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[Note to Students](#)[About Carroll University](#)**Admissions**

Admission to Carroll University is offered to those for whom academic and personal success seems likely. Each candidate is evaluated individually. Evidence of good character and demonstrated ability to do university level work is essential.

For more information on Admissions, click on a topic below.

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Students who wish to attend Carroll University may choose from two basic options.

**Full time** - students who carry 12 credits or more per semester.

**Part time** - students who carry 11 credits or fewer per semester. There are two types of part-time students.

**Degree seeking** - students working toward a Bachelor of Arts, Bachelor of Science, Bachelor of Science in Music Education or Bachelor of Science in Nursing.

**Non-degree seeking** - students taking courses for enrichment, skill-building, or preparation for graduate study purposes. Courses may be taken for credit or audited (students do not receive university credit for their work).

Note: Students may move between full-time and part-time status. However, they should be aware of implications for tuition and fees, financial aid, housing, etc. **Part-time students who wish to attend the University as full-time students must apply through the Office of Admission. Questions should be directed to the appropriate offices.**

Students come to Carroll from different environments. Some matriculate directly from secondary schools or transfer from other institutions. Other students enroll at Carroll as working adults.

Carroll offers classes during the day, in the evening, and online. Students at Carroll may choose from more than 45 areas of study or they may design their own major. Five majors can be completed through evening courses.

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**Procedures for Admission - Full-Time Freshmen**

The following credentials must be submitted to the Office of Admission:

1. **Application for admission**, which may be submitted at any time following the successful completion of the junior year in secondary school.
2. **Transcript from an accredited secondary school** that shows progress toward, or the completion of, graduation requirements.
3. **School Report Form**, which consists of a personal evaluation by the secondary school guidance counselor.
4. **SAT or ACT scores**: these tests are administered by the College Entrance Examination Board and the American College Testing Program, respectively
5. **Nursing students** must submit a transcript from an accredited secondary school that shows satisfactory completion of coursework in algebra II, chemistry and biology.

Decisions are made on applications when they are complete, and applicants are notified promptly through the Office of Admission. In some instances, the files of prospective students are referred to the Admission Committee for review and action. That body may grant admission to the University provided certain conditions are met or may require the student to satisfy specified criteria. Final admission to the Carroll athletic training, nursing, and physical therapy programs is contingent upon the ability of the applicant to comply with the technical standards as listed in the catalog under each area of study, as well as the health standards listed on the Carroll University health forms.

University applicants with disabilities bear no obligation to disclose their disabilities during the application process. However, an applicant may choose to disclose his/her disability to the Office of Admission if the student believes that he/she does not meet the University's regular admission requirements. The disability may be taken into consideration in relationship to the student's overall achievement, the effect of the disability on his/her academic achievement, and the likelihood of the student's success in the University's programs, courses and activities.

Following acceptance, students intending to enroll must pay a \$200 **confirmation deposit**, complete the health information form and submit a statement of medical insurance coverage. All students are required to have medical insurance coverage as listed in the Catalog under Student Life, Health Insurance.

Those who apply for financial aid are not required to declare their intention to enroll until after they have been notified of their final financial aid award.

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Students are encouraged to file applications for admission to the first semester (fall) before March 15. Applications will be considered and qualified candidates will be accepted as long as there are openings in the entering class. Applications and all supporting documents for admission to the second semester should be filed before November 1.

To assure early notification of admission, either the ACT or SAT should be taken before March 15. Ordinarily, the SAT is administered seven times a year in October, November, December, January, April, May and June. The ACT is administered five times a year in October, December, February, April and June.

Test scores obtained in the junior year may be submitted. Students should contact their guidance counselor or write the testing agency to obtain test registration forms.



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Carroll recognizes the varying needs of individual students with the following options:

**Early admission** may be granted following the completion of three years of secondary school, provided the secondary school indicates that it is in the applicant's best interest to do so. The applicant may or may not have completed the coursework required for secondary school graduation at the time of admission, but must show unusual promise and achievement.

**Deferred admission** may be offered to students who want to delay university study for a semester or full year after graduating from secondary school.

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**Advanced Placement**

Applicants will be considered for advanced placement according to the policies established by Carroll University. The applicant's advanced standing is determined individually and is based on an evaluation of all prior academic work.

Options for advanced placement are:

1. Advanced placement exams administered in high school.
2. Retroactive credit for modern languages and math.
3. CLEP exams (College Level Examination Program).
4. Program exams.
5. Challenge exams to complete requirements in specified nursing courses or portions of courses, for registered nurses.
6. Credit for prior learning application.

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**Procedures for Admission - Full-Time Transfer**

The following credentials must be submitted to the Office of Admission:

1. **Application for admission**, which may be submitted at any time.
2. **Transcript from an accredited secondary school.**
3. **Transcript(s) from all post-secondary institutions** attended.
4. **College Report Form** to be completed by the dean or assistant dean of students at the post-secondary institution most recently attended.

Students must normally be eligible to return in good standing (be free of academic or disciplinary probation) to all institutions previously attended.

Application criteria and academic progression standards for specific academic programs are listed separately in the catalog.

Students from a two-year or four-year accredited post-secondary institution may receive transfer credits provided:

1. Transfer courses parallel Carroll University courses or are deemed eligible for elective credit.
2. All courses accepted in transfer and applied to graduation hours are graded C or better.
3. A maximum of 64 credits may transfer from a two-year institution.
4. There is no limit as to the number of credits eligible for transfer from a four-year institution.
5. Students must complete their final 32 credits at Carroll, including at least one-fourth of their major credits and at least one-fourth of the minor credits.

Transfer credit will be evaluated under the following provisions:

1. A course in which a student received a grade of D may be used to complete general education curriculum and major or minor requirements, but the credit hours will not count as hours toward graduation. All D and F graded courses normally acceptable for transfer credit will be figured into the calculation of the cumulative grade point average.
2. A course in which a student received a D or F grade may be repeated for credit and only the last grade earned will be used in the grade point average calculation.
3. Transfer students with an associate of arts or an associate of arts & science degree with at least 52 hours of acceptable transfer credit will have the writing seminar waived and will meet all GE 1 distribution components in the general education curriculum. In addition, transfer credit may be received for the CCD, GE2 and CCE requirements.
4. Transfer students with a previous bachelor's degree from an accredited post-secondary institution will have the writing seminar waived and will meet all GE 1 distribution components in the general education curriculum. In addition, transfer credit may be received for the CCD, GE2 and CCE requirements.
5. Students may be eligible for retroactive credit when transferring in an upper level modern language or math course(s). Retroactive credit will be granted at Carroll University only if the transferring institution previously awarded retroactive credit(s). If the transferring institution did not award retroactive credit(s), Carroll University will only grant credit for the upper level course(s). Please refer to the Alternative Methods of Obtaining Credits in the Academics and Program Policies of the current Catalog for specific guidelines
6. All transfer coursework is evaluated on a course by course basis. General education curriculum requirements must be completed by either transfer or Carroll University credit.
7. If a student repeated a course in which s/he initially received a grade of C or better and the repeated course had an unsatisfactory grade (D or F), s/he will receive the last grade earned. The final grade will be used in the grade point average calculation.
8. Transfer credit course timeline stipulations may exist for specific academic programs. Please refer to the academic program sections of the catalog for details.

**Transfer credit policy after enrollment at Carroll University:** Individual departments will evaluate transferred coursework to ensure equivalent content is being learned by the student in the transferred course. Therefore, it is necessary to obtain permission in advance from the Carroll University Registrar's Office in order to have coursework from another institution accepted in transfer. All coursework must be graded at C or better to be accepted. Grade point deficiencies at Carroll University cannot be made up with transfer course credit. Note: Full-time and part-time students are required to complete their final 32 hours at Carroll.

The Carroll Nursing Program requires that any relevant transfer coursework in biology, chemistry, health sciences and nursing in which a grade less than a BC was earned must be repeated prior to application.

USAFI credits and/or any other accredited correspondence experiences are evaluated against course offerings at Carroll, and credit is assigned accordingly. Ordinarily, not more than two such courses may receive credit toward a degree at the University

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**Procedure for Admission - Part-Time Students**

Degree-seeking students must submit the following credentials to the Office of Admission:

1. **Application for Admission**
2. **Transcript from an accredited secondary school**
3. **Transcripts from all post-secondary institutions attended**

Non-degree seeking students must submit the following credentials to the Office of Admission:

1. **Application for Admission**
2. **Transcripts from all post-secondary institutions attended** may be required to verify prerequisite coursework.

Students must normally be eligible to return in good standing (be free of academic or disciplinary probation) to all institutions previously attended.

Evaluation for acceptance generally takes one to three weeks and is done on a rolling basis. Part-time students may be cleared to register for classes pending review of the application and supporting documentation, but may be administratively withdrawn once a formal admission decision has been made. Part-time students may register for no more than 16 credits before providing official transcripts and other supporting documentation requested by the Office of Admission.

Application criteria and academic progression standards for specific academic programs are listed separately in the catalog. Transfer credit provisions may be found under the full-time transfer admission information.

Part-time students who wish to apply to the University as full-time students must do so through the Office of Admission. If possible, this process should be completed one full semester prior to anticipated full-time enrollment.

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After the lapse of one or more semesters, students seeking to return to Carroll on a full-time or part-time basis must reapply. Students who have been suspended from the University and have become eligible to apply for readmission must do so through the Office of Admission. The Admission Committee reviews each application and determines the current status of the student and the conditions of readmission. When a student is reaccepted into Carroll University, they will be required to follow the most recent catalog to determine graduation requirements.

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Carroll University maintains articulation agreements with a number of Wisconsin institutions of higher learning in various areas of study. More information is available from the Office of Admission.

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**Athletic Training Education Program Admission**

The athletic training program admits qualified students regardless of race, color, creed, sex, age, sexual orientation, marital status, national or ethnic origin or handicap that does not interfere with the performance of professional athletic training practice as provided by law.

Applications and credentials for admission to the athletic training program must be submitted for processing to the Carroll University Office of Admission. Applicants must be in good standing (be free of academic and or disciplinary probation) at all institutions previously attended. Decisions on applications are made by a selection committee comprised of the athletic training faculty/staff members. Applicants are notified of their status through the Office of Admission.

Students who meet the admission and prerequisite professional phase criteria are granted admission to the professional phase of the athletic training program. Students must also fulfill technical standards and caregiver background and criminal history check to be admitted to the professional phase of the athletic training program.

Students who fail to meet the professional phase admission criteria, who fail to meet technical standards requirements, or who do not pass the caregiver and background criminal history check can be denied admittance to the professional phase of the athletic training program.

Students can enter the athletic training program in one of two ways:

**Direct Admission**

Individuals can be admitted to the program as freshmen. Selection decisions for direct admission are based on evaluation of the following:

a. Carroll University application form  
b. Transcript from an accredited secondary school that shows seven semesters of coursework. In addition, the following high school courses must be completed by graduation:

Required:

1. Three or more years of mathematics
2. One or more years of high school biology
3. One or more years of high school chemistry
4. One or more years of high school English
5. One or more years of high school history
6. Two or more years of high school foreign language

Recommended:

1. One or more years of high school physics
- c. ACT composite score of 21 or SAT total score of 990

To advance into the professional phase of the program in their junior year, direct admission students must satisfy all of the following requirements during their freshman and sophomore years at the University:

- a. A cumulative and semester grade point average (GPA) of 2.75 or higher
- b. Pre-professional science courses (ANP 130 and 140, CHE 101 and 102, PHY 101 and 102, PSY 101) GPA of 2.5 or higher
- c. A minimum course grade of "C" is required in all coursework used to calculate pre-professional GPA.
- d. Completion of the following courses prior to the beginning of the professional phase of the program in the students' junior year:
  1. Cultural Seminar
  2. Writing Seminar
  3. Athletic Training 101 and 102
  4. Pre-professional Science courses (ANP130 and 140, CHE 101 and 102, PHY 101 and 102, PSY 101)
  5. Health Sciences 101 or the equivalent of First Aid and CPR for the Professional Rescuer certification with AED certification
  6. Choose one of the following as a CCD option: PSY221, COM207, PBH102
- e. Submission of transcripts.
- f. Completion and submission of technical standards form and criminal history check.
- g. May only repeat a course once and not be on academic probation.
- h. Admission and progression standards are subject to change based on regulatory, licensing, and/or certification needs.

**Delayed Admission** - Students who enroll at Carroll, not having been admitted to the program through direct admission, can be accepted by meeting the athletic training program progression standards including:

- a. A cumulative and semester GPA of 2.75 or higher
- b. Pre-professional Science courses (ANP 130 and 140, CHE 101 and 102, PHY 101 and 102, PSY 101) GPA of 2.5 or higher
- c. A minimum course grade of "C" is required in all coursework used to calculate pre-professional GPA.
- d. Completion of the following courses or equivalent prior to the beginning of the professional phase of the program:
  1. Cultural Seminar
  2. Writing Seminar
  3. Athletic Training 101 and 102
  - 4 Pre-professional Science courses (ANP 130 and 140, CHE 101 and 102, PHY 101 and 102, PSY 101)
  5. Health Sciences 101 or the equivalent of First Aid and CPR for the Professional Rescuer certification with AED certification
  6. Choose one of the following as a CCD option: PSY221, COM207, PBH102
- e. Submission of application to include: transcripts, cover letter, résumé, and three letters of reference: one from a professor, one from an athletic trainer, and one character reference.
- f. Completion and submission of technical standards form and criminal history check for athletic training.
- g. Participation in university, community service, or athletic training activities.

- h. May only repeat a course once and not be on academic probation.
- i. Admission and progression standards are subject to change based on regulatory, licensing, and/or certification needs.

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**Diagnostic Medical Sonography Admission**

Entry into the Aurora Health Care or the University of Wisconsin Hospital and Clinics professional phase is highly competitive and dependent upon the completion of multiple requirements. The acceptance of students into the professional phase of the program is determined solely by the admissions committee at each hospital's independent School of Diagnostic Medical Sonography.

There is only one application cycle for the professional program each year. Students typically apply in the fall semester of sophomore year or once all of the pre-requisite courses and other requirements are completed by the application deadline of November 15. Students will work closely with the Health and Medical Sciences Advisor to submit a complete application file which is reviewed by the School of Diagnostic Medical Sonography Admissions Committee at each hospital. Qualified students will be contacted for a personal interview in the spring semester after the fall application period. Students accepted into the program begin the two-year professional phase with the hospital partner that fall (a year after first submitting their application). Subsequent progression standards and grading criteria are at the discretion of the partnering hospital. Upon successful completion of the professional program, students earn a certificate in Diagnostic Medical Sonography and a Carroll University Bachelor of Science degree in Health Sciences and an emphasis in Diagnostic Medical Sonography. Due to the highly specialized nature and requirements of this program the students will work closely with the Carroll University Health and Medical Sciences Advisor.

Students interested in applying to the professional phase of the program must meet the following minimum requirements:

1. Fulfillment of Carroll University general education requirements.
2. A minimum GPA of 3.0 with a grade of 'C' or better in pre-requisite and specific science coursework and a minimum GPA of 2.5 in Physics 101 and 102. Grades for course repeats will be averaged and any attempts beyond two will not be recognized.
3. Current Certified Nursing Assistant (CNA) license (at the student's own expense).
4. Accumulation of 100 hours minimum direct patient care as a CNA prior to application as verified by employer.
5. Completion of a drug-screening consent form.
6. Two reference forms accompanied by separate professional letters of recommendation dated within six months of the application deadline.
7. Submission of official transcripts from all colleges and universities attended.
8. A written autobiographical statement highlighting the applicant's previous four years and outlining the applicant's desire to become a sonographer and attend that specific hospital's program.
9. A documented job shadowing experience of a maximum of eight hours (four hours in cardiography and four hours in general sonography).
10. Current American Heart Association CPR certification (at the student's own expense) in Basic Life Support (BLS).
11. Intro to Anatomy and Physiology I and II (ANP 130 and ANP 140) and Physics 101 must be completed by the application deadline.
12. Physics 102 must be completed by December 31st of the application year. NRS 236 must be completed or in progress at the time of the interviews (spring semester).
13. All applicants must submit a \$50.00 non-refundable application fee by check or money order to each hospital they are applying to.

**Required courses used to determine Pre-Requisite GPA (minimum 3.0)**

1. ANP 130: Introduction to Human Anatomy & Physiology I
2. ANP 140: Introduction to Human Anatomy & Physiology II
3. COM 207: Intercultural Communication
4. PHI 194: Bioethics
5. CMP 112: Computational Thinking I
6. CMP 114: Computation Thinking II
7. NRS 100: Health Care and Nursing
8. NRS 230: Health Assessment
9. NRS 236: Human Pathophysiologic Responses
10. PHY 101: Introductory Physics I
11. PHY 102: Introductory Physics II

**Required courses used to determine Science GPA (minimum 3.0)**

1. ANP 130: Introduction to Human Anatomy & Physiology I
2. ANP 140: Introduction to Human Anatomy & Physiology II
3. CHE 101: General Chemistry
4. CHE 102: Biological Chemistry
5. NRS 236: Human Pathophysiologic Responses
6. PSY 221: Lifespan Psychology
7. PSY 260: Health Psychology (if taken as an elective)
8. Additional elective courses in biology, microbiology, chemistry, embryology and/or genetics would also be considered in the Science GPA calculation.

**Required courses used to determine Physics GPA (minimum 2.5)**

1. PHY 101: Introductory Physics I
2. PHY 102: Introductory Physics II

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**Bachelor of Science in Nursing Degree Admission**

The nursing program admits qualified students regardless of race, color, creed, sex, age, sexual orientation, national or ethnic origin or handicap that does not interfere with the performance of professional nursing as provided by law. Students can enter the nursing program in one of two ways:

**Direct Admission** - Individuals matriculate directly from high school into the nursing major with successful completion of the following:

1. One year of high school Algebra II, biology and chemistry (grade C or better).
2. Attain an ACT of 21 or higher and high school cumulative GPA 2.75 or higher.
3. Applicants who have English as a Second Language are required to take the TOEFL and achieve a minimum score of 79, unless satisfactory SAT/ACT scores are available.
4. Submission of the Technical Standards for Admission to and Progression in the Nursing Program upon acceptance to program.
5. In some instances, applicant files are referred to a Selection Committee for review and action. That body may grant admission provided certain conditions are met or may require the student to satisfy specified criteria.
6. Admission and progression standards are subject to change based on regulatory, licensing and/or certification needs.

**Delayed Admission** - Students who enroll at Carroll, not having been admitted to the program through direct admission, including pre-nursing, change of major and transfer student applicants, may apply to the nursing major upon satisfaction of the following criteria.

1. Submission of a Nursing Program application, and if a transfer student, submission of a Carroll University application.
2. Submission of transcripts from an accredited secondary school and all post-secondary institutions attended. Applicants must be eligible to return in good standing (be free of academic or disciplinary probation) to all institutions previously attended as documented on the college report form.
3. A cumulative GPA of 2.75 or higher in college coursework.
4. A professional GPA of 2.75 or higher in college coursework, including completion of ANP 130 and CHE 101 (grade of BC or higher)
5. A minimum course grade of BC is required in all transfer coursework used to calculate the professional GPA (ANP 130, ANP 140, BIO 212, CHE 101, CHE 102, HSC 300 and nursing electives).
6. Candidates with science coursework more than five years old, may be required to repeat coursework prior to application.
7. Written statement to include reason for seeking the BSN degree.
8. Submission of the Technical Standards for Admission to and Progression in the Nursing Program upon acceptance to program.
9. Admission and progression standards are subject to change based on regulatory, licensing and/or certification needs.

Applications and credentials for admission to the nursing program must be submitted to the Office of Admission. Decisions are made by a selection committee and applicants are notified through the Office of Admission. Students not admitted to the nursing program are encouraged to seek assistance through the Center for Academic Advising Services.

**Registered Nurse Admission**

Registered nurses who have graduated from accredited associate degree nursing programs may be admitted to the nursing program as transfer students. These students may receive transfer credit for applicable university courses provided they were completed at an accredited associate degree program and are accompanied by an official transcript from the institution(s).

Registered nurses who wish to enter the nursing program to earn their Bachelor of Science in Nursing degree must meet the following requirements:

1. Graduation from an accredited associate degree program.
2. Current RN license in the state of Wisconsin.
3. A cumulative GPA of 2.75 or higher.
4. Grades of C or better in all required biology, chemistry, health science and nursing courses.

The following credentials are required:

1. Submission of a Carroll University application.
2. Submission of transcripts from an accredited secondary school and all post-secondary institutions attended.
3. Current RN license, State of Wisconsin.
4. Written statement to include:
  - a. Reason for seeking the bachelor's degree
  - b. Self identified professional and academic strengths and weaknesses
  - c. Professional interest area(s) and area of employment
5. Submission of the Technical Standards for Admission to and Progression in the Nursing Program upon acceptance to program.

Completion students may earn up to 34 block nursing credits from previous nursing coursework upon successful completion or challenge of Nursing 230, Health Assessment and Nursing 236, Human Pathophysiologic Responses. Please contact the chair of the nursing program to obtain information on the challenge examinations. The nursing program reserves the right, in special circumstances, to require the student to successfully complete an evaluation process to validate the probability of successful program completion. Special circumstances may include no recent work history as a registered nurse.

**Carroll University Honors Program**

We are pleased you have decided to apply for admission to the Carroll University Honors Program. You can access the application at the following link, [click here](#). Upon completion of Carroll University admission to the nursing program, all freshman applicants are considered for the Honors Program. Following a comprehensive review by the Honors Program Committee, the Carroll Student Scholars Committee invites selected candidates to apply to the program.

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## Pre-Master of Science in Exercise Physiology Program Admission

### PRE-MASTER OF SCIENCE IN EXERCISE PHYSIOLOGY

#### ADMISSION

The Pre-Master of Science in Exercise Physiology Program admits qualified students regardless of race, color, creed, gender, age, sexual orientation, national or ethnic origin, or disability that does not interfere with the performance of professional practice as provided by law. Students can enter the Master of Science in Exercise Physiology Program in one of two ways:

1. **Prior Degree** – Previous degree applicants who have completed an undergraduate or graduate degree from Carroll or another institution.
2. **3 + 2 Completion** - Current Carroll University undergraduate student seeking a Bachelor of Science degree in Exercise Science who intends to follow the 3 + 2 completion plan. The applicant generally is of junior standing when applying to the program. The 3 +2 completion plan requires the first three years of study to be completed at the undergraduate level of study with a major in exercise science (with verification through a degree audit that 128 total credits will be earned upon completion of year one of the graduate program and with all major and general education requirements completed). The final two years consists of graduate level study in the Master of Science in Exercise Physiology Program. Upon completion of the first year of the Master of Science in Exercise Physiology Program, a Carroll University Bachelor of Science degree in Exercise Science is awarded, and upon successful completion of all graduate credits (58 total credits), the Master of Science in Exercise Physiology degree is awarded.

Applications and credentials for admission to the Master of Science in Exercise Physiology Program must be submitted for processing to the Carroll University Office of Admission. As decisions are made on applications, applicants are notified through the Office of Admission. Applicants must be eligible to return in good standing (be free of academic or disciplinary probation) to all institutions previously attended.

Please refer to the graduate catalog for admission requirements when applying to the Master of Science in Exercise Physiology Program as a prior degree or 3 + 2 completion applicant.

Admission and progression standards are subject to change based on regulatory, licensing and/or certification needs.

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## Pre-Physical Therapy and Entry-Level Doctor of Physical Therapy Program Admission

### Pre-Physical Therapy and Entry-Level Doctor of Physical Therapy Program Admission

The entry-level Doctor of Physical Therapy Program admits qualified students regardless of race, color, creed, gender, age, sexual orientation, national or ethnic origin, or disability that does not interfere with the performance of professional physical therapy practice as provided by law. Applications and credentials for admission to the physical therapy program must be submitted for processing to the Carroll University Office of Admission. As decisions are made on applications, applicants are notified through the Office of Admission. Students can enter the physical therapy program in one of three ways: direct admission, non-direct admission, or non-traditional admission.

**Direct Admission Option** - Individuals with direct admission status matriculate directly from high school into the pre-professional phase of the program. The pre-professional phase includes the Freshman, Sophomore and Junior years at the University for those approved in the 3+3 cohort. If a student with direct admission status meets all progression standards after his or her junior year at the University, he or she transitions into the professional phase of the DPT Program. This option allows students to earn an undergraduate bachelor's degree as well as the entry-level DPT degree in a six-year time frame. Individuals approved with direct admission status for the pre-physical therapy athletic training major in the 4+3 cohort, and who meet progression standards after the senior year at the University, will transition into the professional phase of the DPT Program and follow a seven-year time frame.

#### Direct admission selection decisions will be based on evaluation of:

1. Carroll University general admission [undergraduate application](#).
2. Carroll University Physical Therapy Direct Admission Application.
  1. The PT application is an early decision or regular decision application and is accessible to students who are granted general admission.
  2. The direct admission application deadline is February 1, 2016.
3. The Safety and Technical Standards Form.
4. Transcript from an accredited secondary school which shows six semesters of coursework. It is recommended that a senior course schedule is included with general application materials. In addition, the following high school courses are strongly recommended, with grades of "C" or better:
  - One or more years of high school biology
  - One or more years of high school chemistry
  - Two or more years of high school foreign language
  - Three or more years of mathematics
  - One year of physics

#### Pre-approved Physical Therapy Majors:

- Athletic Training (4+3 cohort)
- Biology (3+3 cohort)
- Business Administration (3 + 3 cohort)
- Communication (3+3 cohort)
- Exercise science (3+3 cohort)
- Health care administration (3+3 cohort)
- History (3+3 cohort)
- Psychology (3+3 cohort)
- Public Health (3+3 cohort)
- Spanish (3+3 cohort)

- **Physical Therapy Direct Admission Early Decision (ED)** - applicants who indicate ED on their PT direct admission application and are accepted for direct admission must submit their intent and \$400 required deposit to secure their PT direct admission seat within ten business days from the date of acceptance. The deposit is composed of a \$200 general admission (refundable through May 1st) and \$200 PT program deposit that is non-refundable.

- **Physical Therapy Direct Admission Regular Decision** - applicants who indicate Regular Decision on their application will receive offers starting May 1st, space permitting, and if admitted must submit their intent and required \$400 deposit within ten business days from the date of acceptance.

During their freshman, sophomore and junior years at the University, students with direct admission status pursue their undergraduate degrees in existing Carroll majors which have a pre-physical therapy emphasis. Approved 3+3 cohort majors are biology, business administration, communication, exercise science, health care administration, history, psychology, public health and Spanish. The undergraduate degree for students in the 3+3 cohort is completed the senior year while enrolled in the first year (Phase I) of the professional phase of the Physical Therapy Program. Athletic training is the only approved major in the 4+3 cohort. The undergraduate degree for students in the 4+3 cohort is completed in their senior year.

For the six-year completion (3+3 cohort), pre-physical therapy students with direct admission status must satisfy all of the following progression requirements by the end of spring semester junior year at the University to advance into the professional phase of the program in their senior year. For the seven-year completion (4+3 cohort), direct admission pre-physical therapy students with an athletic training major must complete the following progression requirements by the end of spring semester senior year:

1. A university cumulative grade point average of 3.0 or higher at the time of application, which includes fall semester grades of the junior or senior year respectively, and prior to progressing into the professional phase.
2. A pre-professional course grade point average of 3.0 or higher at the time of application, which includes fall semester grades of the junior or senior year respectively, and prior to progressing into the professional phase.

Pre-professional courses include:

1. 4 semesters of Biology, either BIO120/125 or ANP130/140 and ANP402/403
  2. 2 semesters of Chemistry, either CHE101/102 or CHE109/110
  3. 2 semesters of Physics, either PHY101/102 or PHY203/204
  4. 1 semester of Psychology, either PSY101 or higher. Up to one additional psychology course, at a 200-level or higher, will be included in the pre-professional GPA calculation if completed.
3. A minimum course grade of "C" is required in all course work used to calculate pre-professional GPA.
  4. A maximum of one course within the pre-professional course work (i.e., biology, chemistry, physics, and psychology) may be a repeated and used in the pre-professional GPA calculation. Any Carroll undergraduate credit with an earned C, D, or F grade can be retaken at Carroll prior to the end of the direct admit student's spring semester junior or senior year respectively. The repeated course grade awarded will be used in the GPA calculations.
  5. Successful completion of the following by the end of spring semester junior (3+3 cohort) or senior year (4+3 cohort). All items under 1, 2, and 3 below are due by mid-December junior or senior year respectively:
    1. Carroll University Graduate Studies On-line Application for admission to progress into the Doctor of Physical Therapy Program Professional Phase.
    2. Supplemental Application Materials, which include:
      1. Clinical Experience Documentation form(s): Participation in a minimum of two clinical observation experiences from two different types of physical therapy practice settings which include inpatient acute care, inpatient rehab/sub-acute rehab facility, nursing home facility/extended care, outpatient free-standing PT or hospital clinic, school/pre-school, industrial/occupational health, or home health. A Clinical Experience Documentation form must be submitted to the program and experiences must be completed under licensed physical therapists. Two different practice settings with a minimum of 45 total hours is required.
      2. One letter of reference from a university professor
      3. Safety and Technical Standards form
      4. Application for Graduation: Carroll current students must submit an application for graduation to the Registrar's Office prior to the application deadline to receive a graduation audit.
    3. Official GRE scores: Carroll's School Code is 1101 and Department Code is 0619
    4. Carroll University General Education Requirements, with the exception of CCS400 Global Perspectives Colloquium, which may be completed in Phase I of the professional phase of the program for 3+3 cohort students only.
    5. Pre-professional prerequisite courses (see above for specific for course details). Test credits will not satisfy the natural, health and social science prerequisite coursework requirements.
    6. Two semesters of Computational Thinking (CMP112/CMP114). Pre-PT psychology and business administration majors may substitute CMP114 for PSY205 and BUS114, respectfully.
  6. The CPR certification must be either American Heart Association Basic Life Support for Healthcare Providers or American Red Cross CPR/AED for the Professional Rescuer. Certification for American Red Cross CPR/AED and First Aid is occasionally available on campus to Carroll University students. First Aid certification must be through an organization recognized as a valid issuer of certification such as the American Red Cross or American Heart Association. Copies of your CPR and First Aid certifications are to be submitted during the first week of classes and certifications must be valid for at least one year at the time of entry into Phase I.
  7. Physical Therapy professional phase students are required to have completed a health screening, updated immunizations and tuberculosis screening according to current [Centers of Disease Control and Prevention \(CDC\)](#) recommendations for health professionals, criminal background investigation and drug screening as required by internship placement sites. Exceptions to the immunization requirements will be considered on a case-by-case basis where, for example, a student has an allergy to a vaccine or one of its components. If an exception to the immunization requirements is approved, the University cannot guarantee that its affiliated hospitals and clinics will allow the student to participate in patient care, which is a fundamental requirement of the clinical education component of the Program.
  8. Admission and progression standards are subject to change based on regulatory, licensing, and/or certification needs.

*If, for any reason, a direct admit student does not advance into or withdraws from the Doctor of Physical Therapy program, career services and counseling through the Career Center and Advising Office is available. Any direct admit student who withdraws from the program during his/her freshman, sophomore or junior year must inform the program director in writing and complete a new major, minor declaration form in the Registrar Office.*

**Non-Direct Admission Option** - Students not selected for direct admission will follow the non-direct admission process. Examples of non-direct admission candidates include: high school students not selected for direct admission, undergraduate transfer students, Carroll alumni, and direct admission students who apply outside of their approved cohort year. Applicants who complete 60 or more undergraduate degree credits and will earn a bachelor's degree from Carroll receive a calculated preference in consideration for the professional phase of the program. Non-direct admission students may apply to the professional phase of the DPT program during their junior year at Carroll and reference the below admission criteria. Non-Direct Admission applicants who apply after their junior year at Carroll must reference the current graduate catalog for admission requirements.

Non-Direct Admission applicants who apply in their junior year at Carroll must comply with and meet the following requirements for admission into the Doctor of Physical Therapy Program, which include:

1. A university cumulative grade point average of 3.0 or higher at the time of application, which includes fall semester grades of the junior year, and prior to matriculating into the professional phase.
2. A pre-professional course grade point average of 3.0 or higher at the time of application, which includes fall semester grades of the junior year, and prior to matriculating into the professional phase. Pre-professional courses include:
  1. 4 semesters of Biology, either BIO120/125 or ANP130/140 and ANP402/403
  2. 2 semesters of Chemistry, either CHE101/102 or CHE109/110
  3. 2 semesters of Physics, either PHY101/102 or PHY203/204
  4. 1 semester of Psychology, either PSY101 or higher. Up to one additional psychology course, at a 200-level or higher, will be included in the pre-professional GPA calculation if completed.
3. A minimum course grade of "C" is required in all course work used to calculate pre-professional GPA.
4. A maximum of one course within the pre-professional, prerequisite coursework (i.e., biology, chemistry, physics, and psychology) may be a repeated and used in the pre-professional GPA calculation. Any Carroll undergraduate credit with an earned C, D, or F grade can be retaken at Carroll prior to the end of the direct admit student's spring semester junior year. The repeated course grade awarded will be used in the GPA calculations.
5. Successful completion of the following prior to the start of Phase I of the professional phase of the program. All items under 1, 2, and 3 below are due by mid-January junior year:

1. Carroll University Graduate Studies On-line Application for the Doctor of Physical Therapy Program Professional Phase.
2. Supplemental Application Materials, which include:
  1. Clinical Experience Documentation form(s): Participation in a minimum of two clinical observation experiences from two different types of physical therapy practice settings which include inpatient acute care, inpatient rehab/sub-acute rehab facility, nursing home facility/extended care, outpatient free-standing PT or hospital clinic, school/pre-school, industrial/occupational health, or home health. A Clinical Experience Documentation form must be submitted to the program and experiences must be completed under licensed physical therapists. Two different practice settings with a minimum of 45 total hours is required.
  2. Three Letter of Reference— Form(s): one from a physical therapist, one from a university professor, and one from a non-family member that attests to the student's character.
  3. Essay Form – must be typed.
  4. Employment, Service, and Academic Honor(s) Form: Participation in university or community service activities documentation is required.
  5. Health Science Statement(s) Form.
  6. Safety and Technical Standards form.
  7. Application for Graduation Form – Only Carroll current students must submit an application for graduation to the Registrar's Office prior to the application deadline to receive a graduation audit.
3. Official GRE scores: Carroll's School Code is 1101 and Department Code is 0619
4. Carroll University General Education Requirements, with the exception of CCS400 Global Perspectives Colloquium, which may be completed in Phase I of the professional phase of the program for 3+3 cohort students only.
5. Pre-professional prerequisite courses (see above for specific for course details). Test credits will not satisfy the natural, health and social science prerequisite coursework requirements.
6. Two semesters of Computational Thinking (CMP112/CMP114)
7. Evidence that the bachelor's degree will be awarded at the completion of the senior year.
8. The CPR certification must be either American Heart Association Basic Life Support for Healthcare Providers or American Red Cross CPR/AED for the Professional Rescuer. Certification for American Red Cross CPR/AED and First Aid is occasionally available on campus to Carroll University students. First Aid certification must be through an organization recognized as a valid issuer of certification such as the American Red Cross or American Heart Association. Copies of your CPR and First Aid certifications are to be submitted during the first week of classes and certifications must be valid for at least one year at the time of entry into Phase I.
9. Physical Therapy professional phase students are required to have completed a health screening, updated immunizations and tuberculosis screening according to current [Centers of Disease Control and Prevention \(CDC\)](#) recommendations for health professionals, criminal background investigation and drug screening as required by internship placement sites. Exceptions to the immunization requirements will be considered on a case-by-case basis where, for example, a student has an allergy to a vaccine or one of its components. If an exception to the immunization requirements is approved, the University cannot guarantee that its affiliated hospitals and clinics will allow the student to participate in patient care, which is a fundamental requirement of the clinical education component of the Program.
10. Admission and progression standards are subject to change based on regulatory, licensing, and/or certification needs.

**Non-Traditional Option:** An individual who has completed an undergraduate degree at another institution may apply for admission to the professional phase of the Doctor of Physical Therapy program. Non-traditional applicants are reviewed in a competitive pool consisting of non-traditional and non-direct admission applicants. Please refer to the graduate catalog for the non-traditional student requirements for admission. Please be advised that applicants completing a bachelor's degree and 60 or more undergraduate credits at Carroll University receive a calculated preference in consideration for admission to the DPT Program.



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Program Admission

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Air Force ROTC Information

**Radiologic Technology Program Admissions**

Entry into the Aurora Health Care, Froedtert Hospital or Wheaton Franciscan Healthcare professional phase is highly competitive and dependent upon the completion of multiple requirements. The acceptance of students into the professional phase of the program is determined solely by the admissions committee at each hospital's independent School of Radiologic Technology.

There is only one application cycle for the professional program each year. Students typically apply in the fall semester of sophomore year or once all of the pre-requisite courses and other requirements are completed by the application deadline of November 15. Students will work closely with the Health and Medical Sciences Advisor to submit a complete application file which is reviewed by the School of Radiologic Technology Admissions Committee at each hospital. Qualified students will be contacted for a personal interview in the spring semester after the fall application period. Students accepted into the program begin the two-year professional phase with the hospital partner that fall (a year after first submitting their application). Subsequent progression standards and grading criteria are at the discretion of the partnering hospital. Upon successful completion of the professional program, students earn a certificate in Radiologic Technology and a Carroll University Bachelor of Science degree in Health Sciences and an emphasis in Radiologic Technology. Due to the highly specialized nature and requirements of this program the students will work closely with the Carroll University Health and Medical Sciences Advisor.

Students interested in applying to the professional phase of the program must meet the following minimum requirements:

1. Fulfillment of Carroll University general education requirements.
2. A minimum GPA of 2.5 with a grade of 'C' or better overall and in specific science and math pre-requisite coursework. Grades for course repeats will be averaged and any attempts beyond two will not be recognized.
3. Direct patient care experience. Students may complete this by volunteering or choosing to work as a CNA (at the student's own expense).
4. Completion of a drug-screening consent form.
5. Three reference forms accompanied by separate professional letters of recommendation (required by some programs) dated within six months of the application deadline.
6. Submission of official transcripts from all colleges and universities attended.
7. A written autobiographical statement highlighting the applicant's previous four years and outlining the applicant's desire to become a radiologic technologist and attend that specific hospital's program.
8. A minimum of four hours of documented job shadowing experience is highly encouraged prior to the application deadline.
10. Current American Heart Association CPR certification (at the student's own expense) in Basic Life Support (BLS) is required by some programs.
11. Attendance at a mandatory information session held at the hospital program is required prior to applying for Aurora Health Care. Froedtert Hospital and Wheaton Franciscan Healthcare require attendance after the application deadline prior to candidate interviews.
12. A college-level two-credit course in Medical Terminology is required by some programs.
13. Intro to Anatomy and Physiology I and II (ANP 130 and ANP 140) and Physics 101 must be completed by the application deadline.
14. Physics 102 must be completed by December 31st of the application year.

**Required courses used to determine Science and Math GPA (minimum 2.5)**

1. ANP 130: Introduction to Human Anatomy & Physiology I
2. ANP 140: Introduction to Human Anatomy & Physiology II
3. CMP 112: Computational Thinking I
4. CMP 114: Computation Thinking II
5. PHY 101: Introductory Physics I
6. PHY 102: Introductory Physics II
7. CHE 101: General Chemistry
8. CHE 102: Biological Chemistry
9. ENG 170: Writing Seminar
10. Medical Terminology

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Pre-Physical Therapy and Entry-Level Doctor of Physical Therapy Program Admission

Radiologic Technology Program Admissions

[Air Force ROTC Information](#)**Air Force ROTC Information**

Carroll University students have the opportunity to fully participate in the Air Force Reserve Officers Training Corps program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, Carroll University offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four, three, and two year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course, in addition to a four-week summer field training between their second and third years in the program. Two-year students complete only the professional officer course, but have a five-week summer field training before entering the professional officer course.

General qualifications:

- be a full-time student
- be a United States citizen (for scholarship appointment)
- be in good physical condition
- be of good moral character
- for pilot or navigator training, fulfill all commissioning requirements before age 26 1/2
- for scholarship recipients, fulfill commissioning requirements before age 27 on June 30 in the estimated year of commissioning
- for non-scholarship students, fulfill all commissioning requirements before age 30

**General Military Course:** The first-and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at Carroll University without advance application and does not obligate students to the Air Force in any way.

**Field Training:** AFROTC Field Training is offered during the summer months at selected Air Force bases throughout the U.S. and provides leadership and officer training in a structured military environment. Major areas of study include physical training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

**Professional officer course:** The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon university graduation. All students in the professional officer course receive a nontaxable subsistence allowance of \$200 per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

**Leadership Laboratory:** Leadership laboratory is a cadet-centered activity. It is largely cadet planned and directed, in line with the premise that it provides leadership training experience that will improve a cadet's ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information and other services which will increase the performance and motivation of other cadets.

**AFROTC College Scholarship and Scholarship Actions Programs:** These programs provide scholarships to selected students participating in AFROTC. While participating in AFROTC, students receive \$200 per month along with paid tuition, fees, and a fixed text-book reimbursement. To be eligible for either of these programs, students must:

- Be a U.S. citizen.
- Be at least 17 years of age on the date of enrollment and under 27 years of age on June 30 of the estimated year of commissioning.
- Pass an Air Force physical exam.
- Be selected by a board of Air Force officers.
- Have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic. (Applicants must not be conscientious objectors.)
- Achieve a passing score on the Air Force Officer Qualifying Test.
- Maintain a quality grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year; pre-applicant questionnaires are available from high school guidance counselors or any Air Force recruiting office. Completed pre-applicant questionnaires should be mailed as soon as possible (to meet the earliest selection board) but will not be accepted if mailed after December 1 of the year before entering university. For students already enrolled at Carroll, three-and two-year scholarships are available. Submit applications directly to the Department of Aerospace Studies at Marquette University. For more information, call 414.288.7682.

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This catalog provides general information about Carroll University, and it summarizes important information about the University's policies, requirements for graduation, regulations and procedures. It is not intended to establish, nor does it establish, a contractual relationship with students. Rather, the Catalog is published to acquaint students with information that will be helpful to them during their university careers.

It is necessary in the general administration of the University to establish requirements and regulations governing the granting of degrees. Academic advisers, other faculty and academic staff members are available to aid students in understanding the requirements and regulations. It is the students' responsibility, however, to meet them. Students are encouraged to keep this Catalog as a reference, should questions arise.

Changes in curricular requirements may occur between catalog publications. Students will be informed of such changes. When this occurs, students may follow the requirements in effect at the time they entered or they may follow the changed requirements. However, the courses that students take to meet General Education and Distribution requirements must conform to the Catalog year in which the courses are taken. For other degree requirements, students must choose to follow one Catalog or the other; they may not pick and choose from the various requirements outlined in two or more Catalogs. Students must follow the curriculum requirements of any one Catalog in effect during their enrollment. Programs with additional accreditation standards may have different course requirements from the student's original Catalog. Progression standards are subject to change based on regulatory, licensing, and/or certification needs. Students returning to the University after an absence of one academic year or more must meet the degree requirements of the Catalog in effect upon their return or of a subsequent Catalog. Reasonable substitutions will be made for discontinued and changed courses.

The University reserves the right to make other necessary changes without further notice.

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**Carroll University Contact Information**

**Carroll University**  
**100 N. East Avenue**  
**Waukesha, WI 53186**

For general information, call 262.547.1211  
To contact the Admission Office, call 262.524.7220 locally  
or toll-free at 1.800.CARROLL (1.800.227.7655)  
FAX: 262.524.7139

[Carroll University Web site](#)

Visits to Carroll University are encouraged. The Admission Office is open from 8 a.m. to 4:30 p.m., Monday through Friday. During the school year, the office is open from 9 a.m. to noon on Saturdays. Visits should be arranged in advance by calling or writing the admission office.

The offices of Admission, Part-Time Studies and Student Financial Services are located in Voorhees Hall, at the northwest corner of East and College Avenues.

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## Carroll's Mission Statement and Four Pillars of Education

### Wisconsin's Oldest College

In 1841, settlers living in the Wisconsin Territory community of Prairieville established the academy that five years later would become Carroll College. Soon after its founding, Carroll affiliated with the Presbyterian Church and adopted the motto, "Christo et Litteris," which means "for Christ and Learning." The University's early patrons believed that higher education would serve as an instrument for civilizing the wilderness, spreading the Gospel and planting the roots of democracy deep in the prairie soil. They also sought to provide for the prosperity of their children and future generations. As Wisconsin's oldest institution of higher learning, Carroll is known today as the "Pioneer College." Carroll became Carroll University in 2008.

Throughout its history, the hallmarks of the Carroll educational experience have been teaching excellence and individualized attention. These values find expression in The Mission Statement and The Four Pillars of a Carroll University Education.

### Carroll University Mission Statement

"Carroll University provides a superior education, rooted in its Presbyterian and liberal arts heritage, and draws upon its Christian tradition to prepare all students for vocational success, lifelong learning and service in a diverse and global society."

### The Four Pillars of a Carroll University Education

Today, the institution draws upon its rich liberal arts tradition to prepare students to achieve their full potential in our ever-changing society. The University's educational philosophy is sustained by the four pillars of integrated knowledge, lifelong skills, gateway experiences and enduring values.

**Integrated Knowledge** is the very foundation of a quality liberal arts program. The Carroll curriculum emphasizes breadth and depth of learning. Our purpose is to encourage students to recognize the interrelationships among ideas. We believe that students with this understanding will continue to learn, grow and succeed long after they leave the campus.

**Lifelong Skills** help students prepare for life and work in a world of rapid and constant change. We believe that graduates will continue to evolve and contribute to their communities long after they earn their degrees. To that end, our mission is to help students learn to think critically and creatively, adapt to changing technologies, work efficiently and effectively, collaborate with others, and communicate clear, compelling ideas.

**Enduring Values** help students to consider always the impact of their actions on the world around them. We believe that effective leaders draw their inspiration from strong personal value systems. Our goal, therefore, is to offer students multiple opportunities to make decisions and then to reflect upon their consequences.

**Gateway Experiences** occur both upon entering and upon leaving Carroll University. We believe that our educational responsibility extends beyond the classroom into every aspect of our students' lives. That is why we place a special emphasis on preparing incoming students for university life and on helping graduates make successful transitions into their first jobs, or graduate and professional schools.

The four pillars undergird all that we do at Carroll University. They are integral to our undergraduate curriculum and guide our post-baccalaureate and graduate programs. In other words, they provide the broad inspiration for the Carroll experience and the many relationships we nurture with other organizations and institutions.

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## University Corporation 2016-17 Carroll University

The corporate name of the University is Carroll University, Inc.

### Officers

<b>Chair</b>	<b>James G. DeJong '73</b>
<b>Chair Emeritus</b>	<b>Pershing E. MacAllister '40</b>
<b>Vice Chair</b>	<b>Jose A. Olivieri '78</b>
<b>Treasurer</b>	<b>James M. Schneider '74</b>
<b>Secretary</b>	<b>Charmaine L. Ponkratz '77</b>
<b>President of the University</b>	<b>Douglas N. Hastad</b>

### Trustees

Ted H. Baker '71, Board of Directors, National Stock Exchange, Naples, Florida  
 Deborah A. Block '74, Senior Pastor, Immanuel Presbyterian Church, Milwaukee, Wisconsin  
 Christy L. Brown, CEO, Girl Scouts of Wisconsin Southeast, Milwaukee, Wisconsin  
 Dorval R. Carter '79, President, Chicago Transit Authority, Chicago, Illinois  
 Reynolds R. Challoner '64, President, NEW Paradigm Advisors LLC, Sanibel, Florida/Green Bay, Wisconsin  
 Jefferson V. DeAngelis '80, President/CIO, Northwest Passage Capital Investors, LLC., Milwaukee, Wisconsin  
 James G. DeJong '73, Attorney at Law/Chairman, O'Neil, Cannon, Hollman, DeJong, & Laing, S.C., Milwaukee, Wisconsin  
 Guy J. Di Spigno '69, President, Executive Synergies, Inc., Singer Island, Florida  
 Susan Edwards, President & CEO, Prohealth Care, Waukesha, Wisconsin  
 Timothy J. Hando '86, Senior Vice President-Investments, The Hando Feldman Adams Group, UBS Financial Services, Inc., Bethesda, Maryland  
 Russell W. Harland '83, Physician, ProHealth Care Medical Associates, Waukesha, Wisconsin  
 Douglas N. Hastad, President, Carroll University, Waukesha, Wisconsin  
 Lynda M. Johnson '80, Assistant Treasurer, Harley-Davidson, Milwaukee, Wisconsin  
 Pershing E. MacAllister '40, Chairman of the Board, MacAllister Machinery Company, Indianapolis, Indiana  
 Cindy L. Mayoras '09, Teacher, Windward Child Development Center, Alpharetta, Georgia  
 Alice Crofts Morava '52, Vice President and CEO, Stuart W. Johnson & Co., Inc. Lake Geneva, Wisconsin  
 Terry M. Murphy, Executive Vice President and Chief Financial Officer (retired), A. O. Smith Corporation, Naples, Florida  
 Jose A. Olivieri '78, Partner, Michael Best & Friedrich LLP, Milwaukee, Wisconsin  
 Charmaine L. Ponkratz '77, Vice President Marketing (retired), Marshall & Ilsley Corporation, Green Bay, Wisconsin  
 Dennis G. Panches '58, President, Payback, L.P., Waukesha, Wisconsin  
 Renee H. Ramirez, Executive Director, Waukesha County Community Dental Clinic, Waukesha, Wisconsin  
 James M. Schneider '74, Executive Chairman, Horizon Bank, Austin, Texas  
 Timothy W. Sullivan '75, Chief Executive Officer, Allied Specialty Vehicles, Orlando, Florida  
 Ty R. Taylor, President and CEO, Waukesha State Bank, Waukesha, Wisconsin  
 Joseph P. Zvesper '76, Chairman, President & CEO, American Appraisal Associates, Inc., Milwaukee, Wisconsin

### Alumni Representative

Sandra L. Cunningham, '78, Director, Versiti, Inc./ Blood Center of Wisconsin, Milwaukee, Wisconsin

### Honorary Life Trustees

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 Joan Hardy, Milwaukee, Wisconsin  
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Douglas N. Hastad, 2006  
President  
B.A., Concordia College, Moorhead, MN.  
M.S., Washington State University  
Ed.D., Arizona State University

Joanne Passaro, 2007  
Provost and Vice President for Academic Affairs  
B.A., Ph.D., Duke University

**ABC**

Laila Azam, 2017  
Clinical Assistant Professor of Public Health  
B.S., University of Wisconsin - Milwaukee  
MBA, University of Wisconsin - Milwaukee

Monika Baldrige, 2004  
Associate Professor of Biology and Physician Assistant Studies  
B.S., Marquette University  
Ph.D., University of Wisconsin-Milwaukee

David Bazett Jones, 2012  
Assistant Professor of Physical Therapy  
B.S. University of Wisconsin - LaCrosse  
M.S., Ball State University  
Ph.D., University of Wisconsin - Milwaukee

Barbra J. Beck, 2010  
Associate Professor of Public Health  
B.A., College of St. Benedict  
M.S., Colorado State University  
Ph.D., University of Wisconsin-Milwaukee

Daniel Becker, 2006  
Assistant Professor of Graphic Communication  
B.A., University of Wisconsin-Eau Claire  
M.A., DePaul University

Nancy Bennett, 2010  
Electronic Resources/Systems Librarian  
B.S., University of South Florida  
M.L.I.S., University of Wisconsin-Milwaukee

B.J. Best, 2006  
Associate Professor of English  
B.S., Drake University  
M.F.A., Washington University

Jessica Boll, 2010  
Assistant Professor of Spanish  
B.A., University of Delaware  
M.A., Purdue University

Amanda Bonikowske, 2013  
Assistant Professor of Exercise Science  
B.S., University of Wisconsin - Eau Claire  
M.A., University of Minnesota  
Ph.D., University of Minnesota

Nicole Boyington, 2016  
Academic Fieldwork Coordinator and Clinical Assistant Professor  
MOT, Chatham University

Lisa Brandt, 2015  
Clinical Assistant Professor of Nursing  
B.A., St. Mary's University  
BSN, Creighton University

Roberto Brenes, 2013  
Assistant Professor of Biology  
B.S., Universidad de Costa Rica  
M.S., University of Texas, Tyler  
Ph.D., University of Tennessee

Jamie Lee Krzykowski, 2008  
Clinical Assistant Professor of Exercise Science  
B.S., Northwest Nazarene University  
M.S.S., United States Sports Academy  
Ph.D., Clayton College of Natural Health

Gregory A. Kuhlemeyer, 2000  
Professor of Business  
B.S., Western Illinois University  
M.B.A., Ph.D., University of Tennessee-Knoxville

Jeffrey T. Kunz, 1981  
Assistant Professor of Accounting  
B.S., St. Norbert College  
M.S., University of Wisconsin-Whitewater

Karla L. Kwopil, 2014  
Clinical Assistant Professor of Nursing  
B.S., B.S.N, Carroll University  
MEd, University of Wisconsin-La Crosse

**LMN**

Kelly J. LaBlanc, 2010  
Senior Lecturer in Psychology  
B.S., University of Wisconsin-River Falls  
M.S., University of Wisconsin-Madison  
Ph.D., University of Cincinnati

Jessica Lahner, 2016  
Visiting Lecturer in Psychology  
B.S., University of Wisconsin-Stevens Point  
M.S., University of North Texas  
Ph.D., University of North Texas

Kristen A. Lampe, 2000  
Professor of Mathematics  
B.A., University of Dayton  
M.A., Ph.D., Washington University in St. Louis

Stephen Lange, 2016  
Visiting Lecturer in Computational Science  
B.S. University of Wisconsin-Whitewater  
M.A., Cardinal Stritch University

Brittany Larson, 2009  
Associate Director of the Library  
B.A., Carroll University  
M.L.I.S., University of Wisconsin-Milwaukee

Michael G. Levas, 1985  
Associate Professor of Business  
B.S., M.B.A., Northern Illinois University

Todd D. Levine, 2014  
Lecturer in Biology  
B.S., University of Missouri -St. Louis  
Ph.D., Miami University

Susan E. Lewis, 1994  
Professor of Biology  
B.A., Earlham College  
M.A., Ph.D., University of Minnesota

Canchu Lin, 2015  
Assistant Professor of Operations Management  
B.A., Jiangxi University  
Mini-M.B.A., Purdue University  
M.A., Beijing Foreign Studies University  
M.S., Purdue University  
Ph.D., Purdue University  
Ph.D., University of Toledo



<p>Angela Brindowski, 2006 Chair of Nursing Department Gladys McKay Richter Endowed Chair Clinical Associate Professor of Nursing B.S.N., University of Wisconsin- Milwaukee M.S.N., University of Phoenix</p> <p>Charles A. Byler, 1990 Dean of the College of Arts and Sciences Professor of History B.A., Whitman College M.A., University of Washington Ph.D., Yale University</p> <p>Amy A. Cropper, 1995 Associate Professor of Art B.A., Whitman College M.A., M.F.A., University of Iowa</p> <p style="text-align: center;"><b>DEF</b></p> <p>Stephen J. Dannhoff, 2006 Clinical Assistant Professor of Physical Education B.S., M.S., University of Wisconsin-La Crosse</p> <p>Dennis M. Debrecht, 1984 Associate Professor of Economics B.A., Benedictine College Ph.D., Iowa State University</p> <p>Elena M. De Costa, 1995 Associate Professor of Spanish B.A., Boston State College M.A., Ph.D., University of Wisconsin- Madison</p> <p>Sara Deprey, 2000 Associate Professor of Physical Therapy B.S.P.T., M.S.P.T., Finch University of Health Sciences, The Chicago Medical School D.P.T., MGH Institute of Health Professionals</p> <p>Patrick W. Dill, 2015 Director of Choral Activities B.M., Millikin University M.M., Westminster Choir College D.M.A., University of North Texas</p> <p>Jennifer L. Dobby, 2012 Senior Lecturer in Theatre Arts B.A., University of Illinois at Urbana- Champaign M.F.A., Northwestern University</p> <p>April Doeber-Fischer, MOT, OTR, 2016 Clinical Assistant Professor Concordia University, MOT</p> <p>Rose Ann Donovan, 2002 Assistant Professor of Education B.S., University of Wisconsin-Madison M.A., Silver Lake College</p> <p>Brian P. Edlbeck, 2004 Clinical Assistant Professor of Exercise Science B.S., University of Wisconsin-Stevens Point M.S., University of Wisconsin-Milwaukee</p> <p>Pascale F. Engelmajer, 2012 Assistant Professor of Religious Studies B.A., M.A., Columbia University M.A., Ph.D., University of Bristol</p> <p>Mark R. Erickson, 2003 Clinical Associate Professor of Physical Therapy B.S., University of Wisconsin-LaCrosse M.A., University of Minnesota D.Sc.P.T., Andrews University</p> <p>Sarah E. Esveldt, 2011 Senior Lecturer in Business, Accounting and Economics B.S., Central Michigan University M.B.A., Keller Graduate School</p> <p>Heather Harken Evans, 2006 Senior Lecturer in Mathematics B.S., University of Wisconsin-Whitewater M.Ed., Cardinal Stritch University</p> <p>Peggy Thurston Farrell, 1991 Associate Professor of Art</p>	<p>David B. MacIntyre, 1996 Clinical Associate Professor of Exercise Science B.S., Hope College M.S., Pennsylvania State University</p> <p>Abigail M. Markwyn, 2006 Associate Professor of History B.A., Carleton College M.A., Ph. D., University of Wisconsin-Madison</p> <p>Joel W. Mathtys, 2013 Lecturer in Music B.A., Carroll University M.M., University of Wisconsin-Milwaukee D.M.A., University of Cincinnati</p> <p>Nicole M. Mattson, 2014 Clinical Assistant Professor of Nursing B.S., Carroll University M.S.N., University of Wisconsin-La Crosse</p> <p>Christopher May, 2007 Associate Professor of Psychology B.S., Tulane University M.A., Ph.D., University of California, Davis</p> <p>Kevin McMahon, 2000 The Edna M and Edgar Thronson Associate Professor of Chemistry Chair of Chemistry Department B.Sc., University of Edinburgh M.Sc., Ph.D., Dalhousie University</p> <p>Amy E. McQuade, 2010 Clinical Assistant Professor of Physical Therapy B.S., Michigan State University M.P.T., University of Wisconsin Ph.D., Medical College of Wisconsin</p> <p>James Mikolajczak, 2016 Clinical Assistant Professor of Nursing B.S., Chamberlain College M.S., Chamberlain College</p> <p>Kent E. Molter, 2010 Distinguished Lecturer in Chemistry B.S. Carroll College Ph.D. Duke University</p> <p>Jennifer A. Moon, 2010 Assistant Professor of Photography and Digital Media B.F.A., University of Iowa M.F.A., Rochester Institute of Technology</p> <p>Camie Morris, 2012 Lecturer in Sociology and Criminal Justice B.S., Iowa State University M.Sc., Oxford University Ph.D., Northeastern University</p> <p>Michael G. Mortensen, 2011 Senior Lecturer in Graphic Communication B.Arch. University of Wisconsin - Milwaukee M.Arch University of Houston</p> <p>Sara North, 2012 Lecturer in Physical Therapy B.S., University of Wisconsin - Madison DPT., Northwestern University</p> <p style="text-align: center;"><b>OPQ</b></p> <p>Gary L. Olsen, 1975 Associate Professor of Accounting B.S., Northern Michigan University M.B.A., University of Illinois Ph.D., Marquette University</p> <p>Thomas Pahnke, 2006 Clinical Associate Professor of Physical Therapy and Athletic Training B.S.P.T., University of Wisconsin-Madison M.S., Purdue University</p>
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B.A., Carroll College M.A., M.F.A., University of Wisconsin-Milwaukee	Colleen E. Pennell, 2015 Assistant Professor of Education B.S., Edgewood college M.Ed., Northern Arizona University Ph.D., Cardinal Stritch University
David Feil, 2001 Associate Professor of Mathematics B.A., Coe College Ph.D., University of Iowa	Joseph J. Piatt, 1998 Associate Professor of Chemistry and Environmental Science B.S., Marquette University M.S.C.E., University of Minnesota Ph.D., University of Arizona
Timothy C. Flewelen, 2015 Visiting Lecturer of Chemistry and Biochemistry B.A., University of North Texas B.S., University of North Texas Ph.D., Medical College of Wisconsin	Pamela Pinahs-Schultz, 1980 Professor of Physical Education B.Ed., University of Wisconsin-Oshkosh M.S.Ed., Chicago State University Ph.D., University of Wisconsin-Milwaukee
<b>GHI</b>	<b>RST</b>
Gregory M. Gabrielsen, 2010 Senior Lecturer in Physics B.S., Illinois Wesleyan University M.S., Montana State University	Julie Rapps-Hedgcock, 2016 Visiting Instructional Faculty - Physical Therapy B.S., Missouri State University Ph.D., University of Missouri-School of Medicine
Timothy Galow, 2011 Associate Professor of English B.A., University of Wisconsin-Madison M.A., University of Chicago Ph.D., University of North Carolina	Kimberly Redding, 2001 Associate Professor of History B.A., Goucher College M.A., Ph.D., University of North Carolina- Chapel Hill
John Garrison, 2011 Associate Professor of English B.A. University of California-Berkeley M.B.A. University of San Francisco Ph.D, University of California-Davis	Allyson Rennebohm, 2015 Community Inter-professional Liaison BSN, Carroll University
Jon C. Gordon, 2013 Senior Lecturer in Communication B.A. Hiram College M.A. University of South Carolina Ph.D., The Ohio State University	Susan I. Riehl, 2004 Public Service/Technical Services Librarian B.A., M.A., M.L.I.S., University of Wisconsin-Milwaukee
Lilly Goren, 2005 Professor of Political Science A.B., Kenyon College M.A., Ph.D., Boston College	Wilma Robinson, 2001 Associate Professor of Education B.A., Howard University M.P.A., University of Wisconsin-Oshkosh Ph.D., University of Wisconsin-Madison
Lisa Green, 2006 Clinical Assistant Professor of Nursing B.S.N., Viterbo University M.S.N., Cardinal Stritch University	Michael J. Rodriques, 2014 Clinical Assistant Professor of Nursing B.A., Purdue University M.S.N., University of Wisconsin-Milwaukee
Scott Greene, 2016 Lecturer in Engineering B.S., Cornell University M.S., University of Wisconsin-Madison Ph.D., University of Wisconsin-Madison	Jason T. Roe, 2010 Senior Lecturer in Exercise Science B.S., University of Wisconsin-Stevens Point M.S., University of Wisconsin-La Crosse
James P. Grimshaw, 2004 The P.E. and Becky MacAllister Chair in Religious and Biblical Studies Associate Professor of Religion B.S., Rose-Hulman Institute of Technology M.Div., Christian Theological Seminary Ph.D., Vanderbilt University	Massimo A. Rondolino, 2013 Assistant Professor of Philosophy M.A., Universita Degli di Pavia M.A., Ph.D., University of Bristol
Jessica M. Grusnick, 2014 Clinical Coordinator and Clinical Assistant Professor of Physician Assistant Studies B.A., MSPAS, Marquette University	Beth Rousseau, MA:MT-BC, 2006 Director of Musical Therapy and Clinical Assistant Professor of Musical Therapy B.A., Gonzaga University M.A., Naropa University
Kevin S. Guilfooy, 2004 Associate Professor of Philosophy and Religious Studies B.A., University of Vermont M.A., Ph.D., University of Washington	Aaron Routhe, 2015 Lecturer of Sociology B.S., Houghton College M.A., University of Tennessee - Knoxville Ph.D., University of Tennessee - Knoxville
Jamie L. Hansen, 2010 Clinical Assistant Professor of Nursing B.S., Cardinal Stritch University M.S., University of Phoenix	Pacia Sallomi, 1997 Professor of Art B.S., University of California, Davis M.A., University of New Mexico M.F.A., Texas Tech University
Susan Hanson, 2009 Distinguished Lecturer in Health and Medicine B.A., Luther College Ph.D., Vanderbilt University	Kathleen S. Sampson, 2010 Senior Lecturer in Nursing B.S.N., University of Wisconsin- Milwaukee M.S.N., University of Phoenix
Joseph Hardenbrook Reference and Instruction Librarian B.A., Ball State University M.L.S., Indiana University	Jamie Scaglione, 2013 Assistant Professor of Chemistry B.S., University of Evansville

Larry D. Harper, 1986 Professor of Music B.A., California State University- Northridge M.S., University of Illinois D.M.A., Michigan State University	Ph.D., Washington University School of Medicine P.D.S., University of Michigan
John Harrel, 2016 Assistant Professor of Exercise Science B.A., University of Dayton M.S., University of Tennessee Ph.D., University of Wisconsin-Madison	Matthew Scheel, 2007 Associate Professor of Psychology B.A., Winona State University M.A., Mankato State University Ph.D., University of Nevada
Susan K. Heffron, 2005 Instructional Services Librarian B.A., Clarke College M.L.I.S., University of Wisconsin- Milwaukee	Tara Schmidt, 2007 Lecturer in Psychology B.S., Carroll College M.S., Ph.D., University of Wisconsin-Milwaukee
Scott Hendrix, 2007 Associate Professor of History B.A., Athens State University M.A., Ph.D., University of Tennessee	Christine Schneider, 2011 Assistant Professor of Biology B.S., University of Wisconsin-Madison M.S., University of Wisconsin-Oshkosh Ph.D., Medical College of Wisconsin
Ann Herrera-Ward, 2015 Lecturer of Education and Coordinator of Education Network B.A., University of Wisconsin - Madison M.A., Marquette University Ph.D. University of Wisconsin - Madison	Michael D. Schuder, 1994 Associate Professor of Chemistry B.S., North Dakota State University Ph.D., University of Colorado
Kimberly K. Hofkamp, 2005 Assistant Professor of Education B.S., University of Wisconsin-Madison M.A.E., Silver Lake College	Marie S. Schwerm, 2011 Senior Lecturer in Computer Science B.A., Mount Mary College M.S., Marquette University
Megan L. Holz, 2012 Clinical Assistant Professor of Nursing B.S.N., University of Wisconsin-Oshkosh M.S.N., University of Phoenix	Kathleen A. Shields, 2005 Clinical Assistant Professor of Physical Therapy B.S.P.T. University of Wisconsin-Madison, M.S., University of Wisconsin-Milwaukee
Jane F. Hopp, 1994 Dean of the College of Health Sciences Associate Professor of Physical Therapy B.S.P.T., University of Wisconsin-Madison M.S., Medical College of Wisconsin Ph.D., University of Illinois at Chicago	David D. Simpson, 1977 Professor of Psychology A.B., Oberlin College M.A., Ph.D., Ohio State University
Cynthia J. Horst, 1994 Associate Professor of Biology B.A., Goshen College Ph.D., Emory University	Jeffrey Sischo, 2013 Clinical Assistant Professor of Physical Therapy and Program Director and Clinical Assistant Professor of Athletic Training B.S., University of Wisconsin - Madison DPT., Marquette University
Chenglie Hu, 2001 Professor of Computer Science B.S., M.S., East China Normal University Ph.D., Wichita State University	Rachel L. Stickle, 2008 Senior Lecturer of Education B.S., Carroll College M.A., California State University-Long Beach Ed.D., University of Southern California
Jennifer Huck, 2011 Assistant Professor of Sociology B.S. Carroll College M.S., University of Wisconsin-Milwaukee Ph.D., Indiana University of Pennsylvania	Thomas E. St. George, 2014 Assistant Professor of Mathematics B.A., Monmouth College M.S., University of West Florida PhD, Northern Illinois University
Rebecca Imes, 2005 Associate Professor of Communication B.A., Nebraska Wesleyan University M.A., Emerson College/Tufts University School of Medicine Ph.D., University of Iowa	Lani R. Stockwell, 2014 Director and Clinical Assistant Professor of Occupational Therapy B.S., Weber State University MSOT, Washington University, St. Louis OTS, Creighton University
<b>JK</b>	
Darrel A. Johnson, 2008 Senior Lecturer in Mathematics B.S., M.S., University of Wisconsin- Milwaukee	Timothy Suchomel, 2016 Assistant Professor of Exercise Science B.S., University of Wisconsin-Oshkosh M.S., University of Wisconsin-La Crosse Ph.D., East Tennessee State University
Catherine E. Jorgens, 2006 Risk Manager Lecturer in Business B.A., University of Wisconsin-Madison J.D., University of Wisconsin School of Law	John C. Symms, 1995 Associate Professor of Mathematics B.S., University of Arizona M.S., Ph.D., Colorado State University
Lara P. Karpenko, 2006 Associate Professor of English B.A., University of California-Santa Barbara M.Ed., University of California-Los Angeles Ph.D., University of Notre Dame	Carol D. Tallarico, 2014 Professor and Academic Leader of the Department of Business, Accounting and Economics Professor of Economics B.A., M.A., DePaul University Ph.D., University of Illinois at Chicago
Margaret D. Kasimatis, 1998 Clinical Associate Professor of Health and Medicine	

<p>B.A., St. Mary's College, Notre Dame M.A., Ph.D., Loyola University of Chicago</p> <p>Deirdre M. Keenan, 1991 Professor of English B.A., M.A., Ph.D., University of Wisconsin-Milwaukee</p> <p>Barbara J. Kilgust, 2015 Lecturer in English and Writing B.A., Carroll University M.A., University of Wisconsin - Milwaukee Ph.D., University of Wisconsin - Milwaukee</p> <p>Barbara L. King, 1995 Associate Professor of Communication B.A., Carroll College M.A., Purdue University Ph.D., Wayne State University</p> <p>Michael G. Konemann, 1984 Associate Professor of Computer Science B.S., Carroll College M.S., Marquette University</p> <p>Kathrine Kramer, 2000 Assistant Professor of Education B.S., M.S., University of Wisconsin-Whitewater</p> <p>Philip L. Krejcarek, 1977 Professor of Art B.S., University of Wisconsin-Oshkosh M.F.A., University of Wisconsin-Milwaukee</p> <p>Kerry Kretchmar, 2011 Assistant Professor of Education B.A., New York University M.S., Pace University Ph.D., University of Wisconsin-Madison</p>	<p style="text-align: center;"><b>UVWXYZ</b></p> <p>Gail M. Vojta, 2007 Distinguished Lecturer in Chemistry B.A., St. Olaf College Ph.D., University of Minnesota</p> <p>Julie VonDerVellen, 2013 Lecturer in Graphic Communication B.S., Edgewood College M.A., M.F.A., University of Wisconsin-Madison</p> <p>Kimberly White, 2009 Associate Professor of Education B.S.B.A., M.Ed., The Ohio State University Ph.D., University of Wisconsin</p> <p>Susan Wilson, 2016 Visiting Lecturer in Psychology B.A., Harding University M.A., Northern Illinois University Ph.D., Northern Illinois University</p> <p>Tate Wilson, 2012 Senior Lecturer in Physics B.S., University of Washington Ph.D., University of Washington</p> <p>Mary Ann Wisniewski, 2001 Professor of Business B.A., Alverno College M.S., University of Wisconsin-Milwaukee Ph.D., University of Wisconsin-Madison</p> <p>James Zager, 2008 Associate Professor of Theatre Arts B.S., University of Wisconsin-Stevens Point M.F.A., Arizona State University</p> <p>Annie Zhao Assistant Professor of Marketing B.A., Peking University M.S., University of Wisconsin - Milwaukee Ph.D., University of Wisconsin - Milwaukee</p> <p>Natalya Zinkevich, 2013 Senior Lecturer in Health and Medicine M.S., Saint-Petersburg State Ph.D., Vavilov Institute of General Genetics</p> <p>Keith J. Zukas, 2013 Assistant Professor of Communication B.A., M.A., Ph.D., University of Wisconsin-Madison</p>
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**About Carroll University**

Carroll University Contact Information

Carroll's Mission Statement and Four Pillars of Education

University Corporation 2016-17 Carroll University

Carroll Faculty 2016-2017

[Faculty Award Recipients](#)

Emeriti

**Faculty Award Recipients****Recipients of the Benjamin F. Richason Jr. Faculty Award**

Earl N. Hudson III (1989)	Barbara L. King (2002)
O. Lamar Cope (1990)	Larry D. Harper (2003)
Jack R. Dukes (1991)	Linda G. Thompson (2004)
David M. Molthen (1992)	Michael D. Schuder (2005)
Philip L. Krejcarek (1993)	Richard J. Penlesky (2006)
David A. Block (1994)	Chenglie Hu (2007)
Virginia M. Parsons (1995)	Joseph J. Piatt (2008)
Richard J. Watkins (1996)	Charles A. Byler (2009)
Joseph J. Hemmer Jr. (1997)	Monika G. Baldrige (2010)
James B. Vopat (1997)	Lilly J. Goren (2011)
Hugo J. Hartig (1998)	Christopher J. May (2012)
Gerald L. Isaacs (1999)	Scott Hendrix (2013)
Lori Duin Kelly (2000)	Arthur W. Best (2015)
Mary E. Hauser (2001)	Susan E. Lewis (2016)

**Recipients of the Norman and Louise Allhiser Award for Teaching Excellence**

Marceil V. Poltorak (1989)	Catherine L. Cullen (2003)
Lelan E. McLemore (1990)	Lisa K. Conley (2004)
Mark C. Aamot (1991)	Mary E. Kazmierczak (2005)
David D. Simpson (1992)	Kathrine Kramer (2006)
Richard J. O'Farrell (1993)	Paul L. Rempe (2007)
Pamela Pinahs-Schultz (1994)	Kimberly Redding (2008)
Peter L. Settle (1995)	Sara Deprey (2009)
Claudette McShane (1996)	Rebecca S. Imes (2010)
Emily S. Long (1997)	James Zager (2011)
Deirdre M. Keenan (1998)	Jeffrey T. Kunz (2012)
Ann E. Cook (1999)	John Garrison (2013)
Amy A. Cropper (2000)	Daniel Becker (2014)
Charles A. Byler (2001)	John Symms (2015)
Robert G. Black (2002)	Barbara L. King (2016)

**Endowed Chairs**

The Edna M and Edgar A. Thronson Chair in Chemistry	Kevin McMahon
The Mary Robertson Williams Chair in English	Lori Dunn Kelly and Deirdre M. Keenan
The P.E. and Becky MacAllister Chair in Religious and Biblical Studies	James P. Grimshaw
The Cordelia Pierce Hedges Chair in Theatre Arts	James Zager
Gladys McKay Richter Endowed Chair	Angela Brindowski

**Exemplary Contributions in Service Award**

Elena De Costa (2014)	Ryan T. Corcoran (2015)
Theresa L. Johnson (2014)	John Garrison (2015)
Brittany Larson (2016)	
Gary L. Olsen (2016)	

**About Carroll University**

Carroll University Contact Information

Carroll's Mission Statement and Four Pillars of Education

University Corporation 2016-17 Carroll University

Carroll Faculty 2016-2017

Faculty Award Recipients

[Emeriti](#)

**Emeriti****Emeriti**

Mark C. Aamot, 1974  
Professor Emeritus of Music

Judith C. Anderson, 1997  
Associate Professor Emeritus of Physical Therapy

Harry A. Auchter, 1953  
Associate Professor Emeritus of Physics

Lynne Bernier, 2014  
Associate Professor Emeritus of Political Science

Robert G. Black, 1994  
Professor Emeritus of Spanish

David A. Block, 1988  
Associate Professor Emeritus of Environmental Science

John C. Clausz, 1979  
Professor Emeritus of Biology

O. Lamar Cope, 1969  
Professor Emeritus of Religion and Philosophy

Joseph M. Dailey, 1972  
Associate Professor Emeritus of Communication

Jack R. Dukes, 1970  
Professor Emeritus of History

Russel C. Evans, 1969  
Librarian Emeritus

Frank S. Falcone, 1993  
President Emeritus

Timothy J. Fiedler, 1976  
Associate Professor Emeritus of Sociology

Robert J. Friebus, 1975  
Associate Professor Emeritus of Sociology

Quinten C. Grosskopf, 1966  
Associate Professor Emeritus of Mathematics

Hugo J. Hartig, 1976  
Professor Emeritus of Music

Linda Hartig, 1997  
Librarian Emeritus

Eugene S. Haugse, 1966  
Professor Emeritus of Political Science

Earl N. Hudson III, 1970  
Professor Emeritus of Chemistry

Uldis E. Inveiss, 1963  
Professor Emeritus of Economics and Business Administration

Sidney C. Jones, 1961  
Professor Emeritus of English

Gay G. Knutson, 1982  
Professor Emeritus of Education

Emily S. Long, 1991  
Associate Professor Emeritus of Education

R. Merle Masonholder, 1980  
Associate Professor Emeritus of Physical Education

David M. Molthen, 1970  
Professor Emeritus of Theatre Arts

Merlene A. Moody, 1983  
Associate Professor Emeritus of Business Administration

Richard J. O'Farrell, 1973  
Professor Emeritus of Mathematics

Ralph F. Parsons, 1974  
Professor Emeritus of Psychology

Virginia M. Parsons, 1976  
Professor Emeritus of Psychology

Marceil V. Pultorak, 1970  
Professor Emeritus of Art

Paul L. Rempe, 1969  
Associate Professor Emeritus of History

Paul A. Roys, 1961  
Professor Emeritus of Physics

Thomas F. Selle, 1983  
Associate Professor Emeritus of Art

Peter L. Settle, 1974  
Professor Emeritus of Communication

Lawrence A. Sinclair, 1958  
Professor Emeritus of Religious Studies

Claude H. Slusher, 1958  
Professor Emeritus of Business Administration

Daniel T. Steffen, 1974  
Assistant Professor Emeritus of Physical Education

Gary W. Stevens, 1970  
Associate Professor Emeritus of English

Bruce Strom, 2014  
Associate Professor Emeritus of Education

Linda G. Thompson, 1981  
Professor Emeritus of Mathematics

John F. Towell III, 1999  
Associate Professor Emeritus of Computer Science

James E. Van Ess, 1969  
Librarian Emeritus

Glenn A. Van Haitsma, 1958  
Professor Emeritus of English

Melvin G. Vance, 2003  
Instructor Emeritus in Religious Studies

James B. Vopat, 1972  
Professor Emeritus of English

Richard J. Watkins, 1976  
Professor Emeritus of Chemistry

William D. Welch Jr., 1987  
Professor Emeritus of Physics

Bruce A. MacIntyre, 1968  
Professor Emeritus of Biology

Thomas R. Williams, 1966  
Professor Emeritus of Philosophy

Manfred G. Wuerstin, 1958  
Associate Professor Emeritus of English

**Undergraduate Catalog**

Areas of Study

Pioneer Core

**Course Descriptions**

- » Accounting
- » Actuarial Science
- » Anatomy and Physiology
- » Animal Behavior
- » Art
- » Athletic Training
- » Aviation Science
- » Biology
- » Business
- » Chemistry
- » Communication
- » Computational Science
- » Computer Science
- » Cross Cultural Experiences
- » Economics
- » Education
- » Engineering
- » English
- » Environmental Science
- » Exercise Science
- » French
- » German
- » Graphic Communication
- » Health Care Administration
- » Health Sciences
- » History
- » Interdisciplinary Studies
- » Mathematics
- » Modern Languages
- » Music
- » Music Therapy
- » New Cultural Experiences Program
- » Nursing
- » Philosophy
- » Physical and Health Education
- » Physics
- » Physical Therapy
- » Political Science and Global Studies
- » Psychology
- » Public Health
- » Recreation Management
- » Religion
- » Sociology and Criminal Justice
- » Spanish
- » Sport and Recreation Administration
- » Theatre Arts
- » Writing

Academics

Financial Aid

Student Resources

Admissions

Note to Students

About Carroll University

**Course Descriptions**

- Accounting
  - ACC100: Personal Finance (2 hours)
  - ACC205: Financial Accounting (4 hours)
  - ACC206: Managerial Accounting (2 hours)
  - ACC207: Intermediate Accounting I (4 hours)
  - ACC208: Intermediate Accounting II (4 hours)
  - ACC305: Advanced Accounting I (4 hours)
  - ACC306: Advanced Accounting II (4 hours)
  - ACC310: Advanced Cost Accounting and Budgeting (4 hours)
  - ACC324: Advanced Business Law (4 hours)
  - ACC375: Pre-internship Seminar (2 hours)
  - ACC405: Tax Accounting I (4 hours)
  - ACC406: Tax Accounting II (4 hours)
  - ACC407: Auditing (4 hours)
  - ACC414: Accounting Theory (4 hours)
  - ACC480: Internship in Accounting (1 TO 12 hours)
  - ACC483: Internship Option-Prior Work Experience (1 TO 4 hours)
  - ACC498: Independent Study in Accounting (1 TO 4 hours)
- Actuarial Science
  - ASC301: Financial Mathematics (4 hours)
  - ASC302: Probability (4 hours)
  - ASC380: Internship in Actuarial Science (4 TO 16 hours)
  - ASC401: Financial Economics (4 hours)
  - ASC402: Life Contingencies (4 hours)
  - ASC480: Internship in Actuarial Science (4 TO 16 hours)
- Anatomy and Physiology
  - ANP130: Introduction to Human Anatomy and Physiology I (4 hours)
  - ANP130L: Intro to Human Anat and Phys I Lab
  - ANP140: Introduction to Human Anatomy and Physiology II (4 hours)
  - ANP140L: Intro to Human Anat and Phys II Lab
  - ANP402: Human Anatomy (4 hours)
  - ANP402L: Human Anatomy Laboratory
  - ANP403: Human Physiology (4 hours)
  - ANP403L: Human Physiology Laboratory
- Animal Behavior
  - ANB101: The Science of Animal Behavior (4 hours)
  - ANB301: Theory and Practice of Animal Training (3 hours)
  - ANB302: Winter Ecology of Wolf and Lynx (3 hours)
  - ANB380: Internship in Animal Behavior (2-4 hours)
- Art
  - ART103: Prehistoric to Renaissance- Art History Survey (4 hours)
  - ART104: Renaissance to Early Modernism- Art History Survey (4 hours)
  - ART106: Drawing and Composition (4 hours)
  - ART107: Beginning Design 2D and 3D (4 hours)
  - ART201: Painting I (4 hours)
  - ART206: Intermediate and Life Drawing (4 hours)
  - ART209: Photography I (4 hours)
  - ART211: Gallery/Museum Experience (1 TO 2 hours)
  - ART212: Introduction to Book Art (4 hours)
  - ART215: History of Photography (4 hours)
  - ART220: Sculpture I (4 hours)
  - ART223: Creative Arts for Children (2 hours)
  - ART225: Ceramics I (4 hours)
  - ART230: Printmaking I (4 hours)
  - ART235: Art Metals (4 hours)
  - ART258: Visual Communication (4 hours)
  - ART291: Special Topics in Art (2 TO 4 hours)
  - ART298: Independent Study (1 TO 4 hours)
  - ART300: Early Modernism to Present-Art History Survey (4 hours)
  - ART301: Painting II (4 hours)
  - ART306: Advanced and Life Drawing (4 hours)
  - ART309: Photography II - Fine Art (4 hours)
  - ART310: Photography II - Commercial (4 hours)
  - ART314: Photography II Studio Lighting (4 hours)
  - ART313: Travel Journals-Italy (4 hours)
  - ART320: Sculpture II (4 hours)
  - ART325: Ceramics II (4 hours)
  - ART330: Printmaking II (4 hours)



- ART340: Advanced Media Studies (4 hours)
- ART353: Methods of Teaching Secondary Art (2 hours)
- ART391: Special Topics in Art (4 hours)
- ART398: Independent Study in Art (1 TO 4 hours)
- ART401: Painting III (4 hours)
- ART480: Internship in Art (1 TO 4 hours)
- ART490: Capstone in Art (4 hours)

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- Athletic Training
  - ATH101: Athletic Training Seminar I (2 hours)
  - ATH101L: Athletic Training Seminar I Lab
  - ATH102: Athletic Training Seminar II (2 hours)
  - ATH102L: Athletic Training Seminar II Laboratory
  - ATH301: Assessment and Evaluation I (4 hours)
  - ATH301L: Assessment and Evaluation I Laboratory
  - ATH302: Assessment and Evaluation II (4 hours)
  - ATH302L: Assessment and Evaluation II Laboratory
  - ATH304: Therapeutic Modalities (4 hours)
  - ATH304L: Therapeutic Modalities Lab
  - ATH307: General Medicine and Pharmacology for Athletic Training (2 hours)
  - ATH312: Athletic Training Practicum I (2 hours)
  - ATH403: Applied Exercise for Musculoskeletal Injuries (4 hours)
  - ATH403L: Applied Exercise for Musculoskeletal Injuries Laboratory
  - ATH405: Admin of Athletic Training (2 hours)
  - ATH407: Athletic Training Seminar III (2 hours)
  - ATH411: Athletic Training Practicum II (2 hours)
  - ATH499: Capstone-Internship in Athletic Training (14 hours)

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- Aviation Science
  - AVS101: Aviation Science I (4 hours)
  - AVS102: Aviation Science II (4 hours)
  - AVS201: Advanced Aviation Science I (4 hours)
  - AVS202: Advanced Aviation Science II (4 hours)
- Biology
  - BIO120: General Biology I (4 hours)
  - BIO120L: General Biology I Laboratory
  - BIO125: General Biology II (4 hours)
  - BIO125L: General Biology II Laboratory
  - BIO131: Genetics in Family and Society (4 hours)
  - BIO131L: Genetics in Family and Society Lab
  - BIO212: Microbiology for the Health Sciences (4 hours)
  - BIO212L: Microbiology for the Health Sciences Laboratory
  - BIO220: Genetics (4 hours)
  - BIO220L: Genetics Laboratory
  - BIO225: Organismal Physiology (4 hours)
  - BIO225L: Organismal Physiology Laboratory
  - BIO271: Clinical Immunology (4 hours)
  - BIO271L: Clinical Immunology Laboratory
  - BIO322: Comparative Vertebrate Zoology (4 hours)
  - BIO322L: Comparative Vertebrate Zoology Laboratory
  - BIO332: Gene Manipulation and Genomics (4 hours)
  - BIO332L: Gene Manipulation and Genomics Lab
  - BIO333: Ecology (4 hours)
  - BIO333L: Ecology Laboratory
  - BIO350: Endocrinology (4 hours)
  - BIO360: Aquatic Ecology (4 hours)
  - BIO360L: Aquatic Ecology Laboratory
  - BIO399: Capstone in Biological Sciences (4 hours)
  - BIO412: Microbiology (4 hours)
  - BIO412L: Microbiology Laboratory
  - BIO417: Behavioral Ecology (4 hours)
  - BIO417L: Behavioral Ecology Laboratory
  - BIO452: Cell Biology (4 hours)
  - BIO452L: Cell Biology Laboratory
  - BIO462: Conservation Biology (4 hours)
  - BIO480: Internship in Biology (1 TO 4 hours)
  - BIO485: Research in Biology (1 TO 4 hours)
  - BIO491: Special Topics in Biology (1 TO 4 hours)
  - BIO498: Independent Study (1 TO 4 hours)

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- Business
  - BUS101: Introduction to Business (4 hours)
  - BUS260: Ethics in Business, Govt, and Society (4 hours)
  - BUS265: Human Resource Management (4 hours)

- BUS290: Principles of Business Law (2 hours)
- BUS291: Special Topics (1 TO 4 hours)
- BUS301: Principles of Marketing (4 hours)
- BUS302: Principles of Management (4 hours)
- BUS304: Principles of Finance (4 hours)
- BUS305: Principles of Operations Management (4 hours)
- BUS320: Promotion Management (4 hours)
- BUS321: Careers in Finance (2 hours)
- BUS327: Business to Business Marketing (4 hours)
- BUS341: Applied Risk Management (4 hours)
- BUS342: Investment Management (4 hours)
- BUS344: Management of Financial Institutions (4 hours)
- BUS356: Applied Financial Management (4 hours)
- BUS360: Career Development (4 hours)
- BUS435: Marketing Research (4 hours)
- BUS479: Consulting Management (4 hours)
- BUS480: Internship in Business (1 TO 12 hours)
- BUS483: Internship Option-Prior Work Experience (1 TO 4 hours)
- BUS496: Business Policies (4 hours)
- BUS498: Independent Study in Business (1 TO 4 hours)
- LEA190: Leadership and Personal Effectiveness (4 hours)
- LEA302: Leadership Theory and Practice (4 hours)
- LEA499: Leading Change (4 hours)

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- Chemistry

- CHE101: General Chemistry (4 hours)
- CHE101L: General Chemistry Laboratory
- CHE102: Biological Chemistry (4 hours)
- CHE102L: Biological Chemistry Laboratory
- CHE104: Forensic Science (4 hours)
- CHE104L: Forensic Science Laboratory
- CHE106: Drug Discovery (4 hours)
- CHE106L: Drug Discovery Laboratory
- CHE109: Principles of Chemistry I (4 hours)
- CHE109L: Principles of Chemistry I Laboratory
- CHE110: Principles of Chemistry II (4 hours)
- CHE110L: Principles of Chemistry II - Laboratory
- CHE201: Analytical Chemistry (4 hours)
- CHE201L: Analytical Chemistry Laboratory
- CHE203: Organic Chemistry I (4 hours)
- CHE203L: Organic Chemistry I Laboratory
- CHE204: Organic Chemistry II (4 hours)
- CHE204L: Organic Chemistry II Laboratory
- CHE302: Advanced Inorganic Chemistry (4 hours)
- CHE302L: Advanced Inorganic Chemistry Laboratory
- CHE303: Quantum Mechanics and Spectroscopy (4 hours)
- CHE303L: Quantum Mechanics and Spectroscopy Laboratory
- CHE304: Thermodynamics and Kinetics (4 hours)
- CHE304L: Thermodynamics and Kinetics Laboratory
- CHE306: Synthesis and Structure (4 hours)
- CHE308: Biochemistry I (4 hours)
- CHE308L: Biochemistry I Laboratory
- CHE309: Biochemistry II (4 hours)
- CHE310: Advanced Forensic Science (4 hours)
- CHE390: Projects in Chemistry (1 TO 4 hours)
- CHE391: Special Topics in Chemistry (1 TO 4 hours)
- CHE391L: Special Topics Laboratory
- CHE401: Advanced Chemical Analysis and Instrumentation (4 hours)
- CHE401L: Advanced Chemical Analysis and Instrumentation Laboratory
- CHE402: Capstone - Modern Chemistry (4 hours)
- CHE402L: Capstone - Modern Chemistry Laboratory
- CHE480: Internship in Chemistry (1 TO 4 hours)

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- Communication

- COM101: Principles of Communication (4 hours)
- COM111: Debate and Forensic Activities (1 hours)
- COM145: Introduction to Mass Communication (4 hours)
- COM150: Research Methodology (4 hours)
- COM200: Interpersonal Communication (4 hours)
- COM201: Presentational Speaking (4 hours)
- COM202: Small Group Communication (4 hours)
- COM203: Advertising (4 hours)
- COM207: Intercultural Communication (4 hours)
- COM208: Introduction to Public Relations (4 hours)
- COM227: Technical Writing in Organizations (4 hours)
- COM230: Organizational Communication (4 hours)
- COM237: Advanced Newswriting and Reporting (4 hours)
- COM241: Communication and Conflict (4 hours)
- COM255: Digital Journalism (4 hours)
- COM275: Feature Writing (4 hours)

- COM278: Broadcast News Reporting (4 hours)
- COM290: Intro to Health Communication (4 hours)
- COM290H: Intro to Health Communication (4 hours)
- COM291: Topics in Communication (1 TO 4 hours)
- COM296: Research in Communication (1 TO 4 hours)
- COM298: Indep Study in Communication (1 TO 4 hours)
- COM317: Communication Criticism (4 hours)
- COM319: Communication Theory (4 hours)
- COM350: Communication Law (4 hours)
- COM370: Communication Technology and Society (4 hours)
- COM380: Internship in Communication (1 TO 4 hours)
- COM383: Prior Work Experience in Comm (1 TO 4 hours)
- COM391: Topics in Communication (4 hours)
- COM396: Research in Communication (1 TO 4 hours)
- COM398: Indep Study in Communication (1 TO 4 hours)
- COM480: Internship in Communication (1 TO 4 hours)
- COM483: Prior Work Experience in Comm (1 TO 4 hours)
- COM499: Senior Capstone Seminar (4 hours)

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- Computational Science
  - CMP112: Computational Thinking I (4 hours)
  - CMP112H: Honors Computational Thinking I (4 hours)
  - CMP113: Computational Thinking II (4 hours)
  - CMP114: Computational Thinking II - Statistical Analysis Emphasis (4 hours)
  - CMP114H: Honors Computational Thinking II- Statistical Analysis Emphasis (4 hours)
  - CMP330: Computational Techniques for Life and Behavioral Sciences (4 hours)
  - CMP340: Computational Techniques for Physical Sciences (4 hours)
- Computer Science
  - CSC109: Technological Productivity (2 hours)
  - CSC110: Problem Solving through Programming (4 hours)
  - CSC111: Introduction to JAVA (4 hours)
  - CSC112: Advanced Programming with C# (4 hours)
  - CSC240: Computer Organization and Architecture (4 hours)
  - CSC211: Database Web Creation and Networks (4 hours)
  - CSC220: Information Systems (4 hours)
  - CSC226: Data Structures using JAVA (4 hours)
  - CSC303: Network Protocols (4 hours)
  - CSC307: Operating Systems and Web Master Fundamentals-Unix/Linux Apache (4 hours)
  - CSC319: World Wide Web Programming (4 hours)
  - CSC320: Programming Using C++ (4 hours)
  - CSC323: Programming Languages (4 hours)
  - CSC341: Software Design and Development (4 hours)
  - CSC351: Database Design and Implementation (4 hours)
  - CSC352: Advanced Business Web Applications (4 hours)
  - CSC353: Mobile Application Development (4 hours)
  - CSC390: Workshop in Computer Science (4 hours)
  - CSC391: Special Studies/Topics (1 TO 4 hours)
  - CSC392: Seminar (4 hours)
  - CSC396: Research in Computer Science (4 hours)
  - CSC398: Independent Study (1 TO 4 hours)
  - CSC409: Information Technology Mgmt. in an E-Commerce World (4 hours)
  - CSC431: Artificial Intelligence (4 hours)
  - CSC436: Theory of Computation (4 hours)
  - CSC437: Computer Graphics (4 hours)
  - CSC440: Software Engineering (4 hours)
  - CSC450: Projects-Computer Science Majors (4 hours)
  - CSC451: Projects for Information Technology Majors (4 hours)
  - CSC455: Projects-Computer Science Minors (4 hours)
  - CSC480: Internship in Computer Science (1 TO 12 hours)
  - CSC490: Workshop in Computer Science (4 hours)
  - CSC491: Special Studies/Topics (1 TO 4 hours)
  - CSC492: Seminar (4 hours)
  - CSC496: Research in Computer Science (4 hours)
  - CSC498: Independent Study (1 TO 4 hours)

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- Cross Cultural Experiences
  - CCS300: Cross Cultural Experience (2 hours)
  - CCS400H: Global Perspectives Colloquium (2 hours)
- Economics
  - ECO124: Principles of Economics I - Microeconomics (4 hours)
  - ECO225: Principles of Economics II - Macroeconomics (4 hours)
  - ECO306: Microeconomic Theory (4 hours)
  - ECO307: Macroeconomic Theory (4 hours)
  - ECO314: Econometrics (4 hours)
  - ECO343: Money and Banking (4 hours)
  - ECO363: International Economics (4 hours)
  - PPE499: Capstone in Philosophy, Politics, and Economics (4 hours)

- Education

- EDU102: Exploration in Education and Society (4 hours)
- EDU202: Intercultural Context in Education (4 hours)
- EDU203: Educational Psychology (4 hours)
- EDU210: Field Experience in Educ I (1 hours)
- EDU215: Intercultural Immersion Field Experience I (2 hours)
- EDU246: Development, Observation and Assessment in Early Childhood (4 hours)
- EDU248: Early Childhood Education: Home, School, and Community Relationships (4 hours)
- EDU249: Development, Observation, and Assessment of Young Children with Exceptional Needs (4 hours)
- EDU250: Collaboration and Inclusion (4 hours)
- EDU261: Educ of the Exceptional Child (4 hours)
- EDU264: Collaboration for Academic, Social and Career Development (4 hours)
- EDU270: Using Data and Assessment for Planning, Instruction, and Learning (2 hours)
- EDU301: Democracy, Schools, and Society (4 hours)
- EDU303: Instructional Design for the Early Adolescent/Adolescent Learner (2 hours)
- EDU305: Foundations of Reading (3 hours)
- EDU306: Literacy in Middle/Secondary School Content Areas (3 hours)
- EDU311: Field Experience in Education II (1 hours)
- EDU312: Field Experience-Adaptive Educ (1 hours)
- EDU315: Intercultural Immersion Field Experience II (2 hours)
- EDU321: Social Studies in the Elementary /Middle School (2 hours)
- EDU323: Literacy I: Early Childhood - Middle Childhood (4 hours)
- EDU324: Literacy II: Middle Childhood - Early Adolescence (4 hours)
- EDU326: Mathematics in the Elementary/ Middle School (4 hours)
- EDU327: Science Methods in the Elementary/Middle School (2 hours)
- EDU330: Introduction to Diagnostic Assessment of Students with Exceptional Needs (4 hours)
- EDU332: Instructional Strategies for an Inclusive Classroom (4 hours)
- EDU334: Language Development and Disorders of the Exceptional Child (4 hours)
- EDU341: Integrated Curriculum in Early Childhood I - Literacy and Social Emotional Development (4 hours)
- EDU342: Integrated Curriculum in Early Childhood II: Physical and Mathematical Knowledge (4 hours)
- EDU349: Curriculum Development in Special Education/Special Education Methods (4 hours)
- EDU353: Special Methods in Teaching Secondary School Subjects (2 hours)
- EDU355: Special Methods in Teaching Elementary and Secondary Subjects - Modern Languages (3 hours)
- EDU360: Teaching and Learning with English Language Learners (4 hours)
- EDU372: Instructional Design and Methodology for Students with Mild to Moderate Learning Disabilities (2 hours)
- EDU373: Instructional Design and Methodology for Students with Emotional/Behavioral Disabilities (2 hours)
- EDU391: Special Topics in Education (1 TO 4 hours)
- EDU398: Independent Study in Education (1 TO 4 hours)
- EDU400: Capstone in Elementary Educational Studies (4 hours)
- EDU409: Secondary and K-12 Student Tchng (6 hours)
- EDU410: Secondary and K-12 Student Tchng (6 hours)
- EDU419: Early Childhood/Elementary Student Teaching (6 hours)
- EDU420: Early Childhood/Elementary Student Teaching (6 hours)
- EDU422: Special Student Teaching Practicum (1 TO 5 hours)
- EDU423: Special Education Student Teaching (6 hours)

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- Engineering

- GEN100: Engineering Seminar I (1 hours)
- GEN101: Engineering Seminar II (1 hours)
- GEN105: Engineering Graphics (4 hours)
- GEN210: Statics and Dynamics (4 hours)
- GEN310: Strengths of Materials (4 hours)
- GEN320: Advanced Circuits and Electronics (2 hours)
- GEN320L: Advanced Circuits and Electronics Laboratory
- GEN380: Engineering Internship (4 hours)

- English

- ENG120: Introduction to Professional Writing (4 hours)
- ENG140: Introductory Language Skills for Liberal Arts (4 hours)
- ENG162: Science Fiction and Gender (4 hours)
- ENG164: American Indian Literature and Spirituality (4 hours)
- ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class (4 hours)
- ENG170: Writing Seminar (4 hours)
- ENG170H: Writing Seminar (4 hours)
- ENG199: Reading and Writing in the Sciences (4 hours)
- ENG205: Interactive Fiction Writing: Stories and Games for Online Environments (4 credits hours)
- ENG206: Fiction Writing (4 hours)
- ENG207: Poetry Writing (4 hours)
- ENG210: African American Literature (4 hours)
- ENG211: Intro Literary Study I - Poetry (4 hours)
- ENG212: Intro to Literary Study II - Short Fiction & Drama (4 hours)
- ENG214: Global Film Theory and Criticism (4 hours)
- ENG219: Introduction to Linguistics (4 hours)
- ENG230: Grant Writing (4 hours)
- ENG240: British Literature I - Medieval to 1700 (4 hours)
- ENG241: British Literature II - 1700 to Contemporary (4 hours)
- ENG242: American Literature: One Nation, Many Voices (4 hours)
- ENG255: Postcolonial Literature and Theory (4 hours)
- ENG255H: Postcolonial Literature and Theory (4 hours)
- ENG260: Professional Writing in the Public Sphere (4 credits hours)
- ENG288: Spectacle and Text: Visual Culture 1700 - 1920 (4 hours)

- ENG298: Independent Study in English (1 TO 4 hours)
- ENG300: Great Authors (4 hours)
- ENG303: Milton and Moral Choice - His Age and Ours (4 hours)
- ENG304: Shakespeare: From Stage to Screen (4 hours)
- ENG305: Advanced Exposition and the Rhetorical Tradition (4 hours)
- ENG309: Romantic and Victorian Literature (4 hours)
- ENG312: Modernism (4 hours)
- ENG323: Early Modern British Literature (4 hours)
- ENG333: Advanced Creative Writing (4 hours)
- ENG350: Literary Magazine Publishing (4 hours)
- ENG380: Internship in English (2 TO 4 hours)
- ENG398: Independent Study in English (1 TO 4 hours)
- ENG480: Internship in English (4 hours)
- ENG497: Guided Senior Thesis (2 hours)
- ENG499: English Major Capstone-Advanced Literature Seminar (4 hours)

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- Environmental Science

- ENV105: Earth Science (4 hours)
- ENV105L: Earth Science Laboratory
- ENV120: Conservation and Environmental Improvement (4 hours)
- ENV120L: Conservation and Environmental Improvement Laboratory
- ENV120H: Conservation and Environmental Improvement (4 hours)
- ENV120HL: Conservation and Environmental Improvement Laboratory
- ENV150: Climate Science (4 hours)
- ENV150L: Climate Science Laboratory
- ENV201: Problem Solving in Environmental Systems (4 hours)
- ENV222: Environmental Sustainability (4 hours)
- ENV222L: Environmental Sustainability Laboratory
- ENV252: Contemporary Issues in Environmental Science (2 hours)
- ENV277: Natural Resource Management (4 hours)
- ENV290: Workshop-Environmental Science (2 TO 4 hours)
- ENV292: Environmental Ethics (4 hours)
- ENV325: Soils and Hydrology (4 hours)
- ENV367: Geographic Information Systems (4 hours)
- ENV370: Earth Surface Processes (4 hours)
- ENV370L: Earth Surface Processes Laboratory
- ENV380: Internship in Environmental Sci (2 TO 4 hours)
- ENV391: Topics in Environmental Science (1 TO 4 hours)
- ENV396: Research-Environmental Science (2 TO 4 hours)
- ENV398: Independ Study-Environmental Sci (1 TO 4 hours)
- ENV455: Watershed Management (4 hours)
- ENV480: Work-Oriented Internship (2 TO 4 hours)
- ENV491: Topics in Environmental Science (1 TO 4 hours)
- ENV496: Research in Environmental Sci (2 TO 4 hours)
- ENV498: Independent Study in Envir Science (1 TO 4 hours)

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- Exercise Science

- ESC100: Introduction to Exercise Science (2 hours)
- ESC201: Sports Nutrition (4 hours)
- ESC202: Advanced Sports Nutrition (4 hours)
- ESC215: Group Exercise Workshop (2 hours)
- ESC280: Exercise Physiology (4 hours)
- ESC280L: Exercise Physiology Lab
- ESC300: Nutrition and Health (4 hours)
- ESC303: Nutrition Assessment and Prescription (3 hours)
- ESC304: Nutrition and Fitness for Special Populations (3 hours)
- ESC305: Supplements for Sports Performance (2 hours)
- ESC320: Exercise Testing and Prescription (4 hours)
- ESC320L: Exercise Testing & Prescription Lab
- ESC322: Kinesiology (4 hours)
- ESC322L: Kinesiology Lab
- ESC390: Strength & Conditioning Theory Across the Lifespan (4 hours)
- ESC390L: Strength and Conditioning Theory Across the Lifespan Lab
- ESC391: Strength & Conditioning for Sport (2 hours)
- ESC420: Exercise Prescription for Special Populations (4 hours)
- ESC440: Lifetime Weight Management and Behavior Change (4 hours)
- ESC460: Exercise Science Capstone (4 hours)
- ESC480: Internship (12 hours)

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- French

- FRE101: Elementary French I (4 hours)
- FRE102: Elementary French II (4 hours)
- FRE201: Intermediate French I (4 hours)
- FRE202: Intermediate French II (4 hours)
- FRE298: Independent Studies in French (2 TO 4 hours)
- FRE301: Conversation & Composition (4 hours)

- FRE307: French Civilization (4 hours)
- FRE318: Topics in French and Francophone Literatures (4 hours)
- FRE398: Independent Studies in French (2 TO 4 hours)
- German
  - GER101: Elementary German I (4 hours)
  - GER102: Elementary German II (4 hours)
  - GER201: Intermediate German I (4 hours)
  - GER202: Intermediate German II (4 hours)
  - GER298: Independent Studies in German (2 TO 4 hours)
  - GER301: Conversation & Composition (4 hours)
  - GER318: Topics in German Culture and Literature (4 hours)
  - GER398: Independent Studies in German (1 TO 4 hours)
  - GER401: Advanced Conversation (2 hours)
  - GER498: Independent Directed Study (2 TO 4 hours)
- Graphic Communication
  - GRC106: Intro-Communication Technology (2 hours)
  - GRC150: Digital Toolbox - Photoshop/ Illustrator 1 (4 hours)
  - GRC200: Color and Typography (4 hours)
  - GRC210: History of Graphic Design (2 hours)
  - GRC290: Digital Design Studio (4 hours)
  - GRC295: 3-D Digital Design (4 hours)
  - GRC320: Intro to Multimedia Production (4 hours)
  - GRC330: Digital Video I (4 hours)
  - GRC390: Advanced Design Thinking (4 hours)
  - GRC391: Special Studies/Topics (1 TO 4 hours)
  - GRC395: Advanced Design Application (4 hours)
  - GRC450: Capstone-Projects for Graphic Communication Majors (4 hours)
  - GRC480: Internship-Graphic Communication (1 TO 12 hours)
  - GRC491: Special Studies/Topics (1 TO 4 hours)
  - Courses Offered at Waukesha County Technical College
    - GRC110: Print Media/Digital Publishing I (3 hours)
    - GRC120: Print Media II (3 hours)
    - GRC121: Digital Illustration (3 hours)
    - GRC122: Post Press/Distribution (3 hours)
    - GRC130: Print Media III (3 hours)
    - GRC135: Digital Workflows (3 hours)
    - GRC140: Print Materials and Estimating (3 hours)
    - GRC141: Production Coordination/Customer Service (3 hours)
    - GRC142: Color Management (3 hours)

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- Health Care Administration
  - HCA100: Health Care Terminology (2 hours)
  - HCA150: Introduction to Health Care (4 hours)
  - HCA200: Health Care Economics and Policy (4 hours)
  - HCA300: Health Care Management (4 hours)
  - HCA350: Health Care Law and Ethics (4 hours)
  - HCA400: Health Care Financial Management (4 hours)
  - HCA450: Health Care Information Management (4 hours)
- Health Sciences
  - HSC300: Pharmacology (3 hours)
  - HSC311: Cardiovascular Physiology (3 hours)
  - HSC312: Cardiovascular Principles (3 hours)
  - HSC313: Adult Echocardiography I (3 hours)
  - HSC314: Adult Echocardiography II (3 hours)
  - HSC315: Adult Echocardiography III (3 hours)
  - HSC316: Embryology of the Heart (3 hours)
  - HSC317: Special Procedures in Echocardiography (3 hours)
  - HSC318: Pediatric Echocardiography I (3 hours)
  - HSC319: Stress Echocardiography (3 hours)
  - HSC320: Pediatric Echocardiography II (3 hours)
  - HSC350: Introduction to Radiologic Science and Healthcare (2 hours)
  - HSC351: Seminar in Radiography I (3 hours)
  - HSC352: Radiation Protection (2 hours)
  - HSC353: Medical Terminology (2 hours)
  - HSC354: Principles of Imaging I (2 hours)
  - HSC355: Principles of Imaging II (3 hours)
  - HSC356: Imaging Procedures I (5 hours)
  - HSC357: Imaging Procedures II (5 hours)
  - HSC358: Imaging Procedures III (3 hours)
  - HSC359: Radiography Clinical Educ I (3 hours)
  - HSC360: Radiography Clinical Educ II (3 hours)
  - HSC361: Radiography Clinical Educ III (4 hours)
  - HSC370: Introduction to Diagnostic Medical Sonography (3 hours)
  - HSC371: Abdominal Sonography I (3 hours)
  - HSC372: Abdominal Sonography II (3 hours)
  - HSC373: Clinical Education I (3 hours)
  - HSC374: Clinical Education II (3 hours)
  - HSC375: Clinical Education III (3 hours)
  - HSC376: OB/GYN Sonography I (3 hours)



- HSC377: OB/GYN Sonography II (3 hours)
  - HSC378: OB/GYN Sonography III (3 hours)
  - HSC379: Specialized Sonography (3 hours)
  - HSC380: Sonography Principles & Instrumentation (3 hours)
  - HSC430: Seminar in OB/GYN (3 hours)
  - HSC431: Fetal Echocardiography (3 hours)
  - HSC432: Vascular Sonography III (3 hours)
  - HSC434: Introduction to Pediatric Imaging (3 hours)
  - HSC435: Introduction to Musculoskeletal Imaging (3 hours)
  - HSC450: Radiographic Physics I (2 hours)
  - HSC451: Radiographic Physics II (2 hours)
  - HSC452: Digital Imaging (3 hours)
  - HSC453: Seminar in Radiography II (2 hours)
  - HSC454: Cross Sectional Anatomy (3 hours)
  - HSC455: Independent Study (2 hours)
  - HSC456: Imaging Procedures IV (2 hours)
  - HSC457: Radiographic Pathology (2 hours)
  - HSC458: Radiation Biology (2 hours)
  - HSC459: Radiography Clinical Educ IV (3 hours)
  - HSC460: Radiography Clinical Educ V (3 hours)
  - HSC461: Radiography Clinical Educ VI (4 hours)
  - HSC462: Professional Development (2 hours)
  - HSC470: Vascular Sonography I (3 hours)
  - HSC471: Vascular Sonography II (3 hours)
  - HSC472: Seminar in Professional Development (3 hours)
  - HSC473: Clinical Education IV (3 hours)
  - HSC474: Clinical Education V (3 hours)
  - HSC475: Clinical Education VI (3 hours)
  - HSC476: Seminar in Education and Management (3 hours)
- History
    - HIS103: Roots of the Western World (4 hours)
    - HIS104: Europe and the Modern World (4 hours)
    - HIS105: America to 1877 (4 hours)
    - HIS106: America since 1877 (4 hours)
    - HIS106H: America Since 1877 (4 hours)
    - HIS107: Understanding the Premodern World (4 hours)
    - HIS108: Understanding Our Contemporary World (4 hours)
    - HIS110: History of Modern China (4 hours)
    - HIS112: Intro to Latin America History (4 hours)
    - HIS200: Workshop for Historians (4 hours)
    - HIS203: The American Civil War (4 hours)
    - HIS210: Hist-American Foreign Relations (4 hours)
    - HIS213: Women in American History (4 hours)
    - HIS215: American Encounters: Natives, Africans, and Europeans in the Americas, 1350-1750 (4 hours)
    - HIS217: Renaissance and Reformation Europe (4 hours)
    - HIS224H: The World Since 1945 (4 hours)
    - HIS225H: Medieval Europe, China, and the Islamic Crescent (4 hours)
    - HIS254: Topics in Medieval European History (4 hours)
    - HIS257: Europe's Civil War: 1900-1950 (4 hours)
    - HIS280: Internship in History (2 TO 4 hours)
    - HIS291: Topics in History (2 TO 4 hours)
    - HIS298: Independent Study in History (2 TO 4 hours)
    - HIS301: The Forging of a Nation - The Colonial and Revolutionary Experience in North America (4 hours)
    - HIS305: Recent America (4 hours)
    - HIS316: Renaissance and Reformation Europe (4 hours)
    - HIS318: American Indian History (4 hours)
    - HIS329: The German Experience (4 hours)
    - HIS391: Topics in History (4 hours)
    - HIS398: Independent Study in History (2 TO 4 hours)
    - HIS495: Kennan Seminar (1 hours)
    - HIS499: Capstone - Senior Seminar for Historians (4 hours)

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- Interdisciplinary Studies
  - IDS200: Career Exploration and Preparation in the Humanities and Social Sciences (2 hours)
- Mathematics
  - MAT101: Intermediate Algebra (4 hours)
  - MAT104: Foundations of Elementary Mathematics I (4 hours)
  - MAT106: Mathematics for the Liberal Arts (4 hours)
  - MAT130: Elementary Functions (4 hours)
  - MAT140: Calculus and Its Applications (4 hours)
  - MAT160: Calculus I (4 hours)
  - MAT160L: Calculus I - Laboratory
  - MAT161: Calculus II (4 hours)
  - MAT161L: Calculus II - Laboratory
  - MAT201: Foundations of Elementary Mathematics II (4 hours)
  - MAT205: Discrete Mathematics (4 hours)
  - MAT206: Transition to Adv Mathematics (4 hours)
  - MAT207: Calculus III (4 hours)
  - MAT208: Linear Algebra (4 hours)
  - MAT215: Engineering Mathematics I (4 hours)

- MAT216: Engineering Mathematics II (4 hours)
- MAT305: Modern Geometry (4 hours)
- MAT309: Differential Equations (4 hours)
- MAT312: Theory of Probability & Statistics (4 hours)
- MAT320: Abstract Algebra (4 hours)
- MAT324: Numerical Analysis (4 hours)
- MAT350: Mathematics Seminar (4 hours)
- MAT391: Adv Topics in Mathematics (2 TO 4 hours)
- MAT409: Mathematical Analysis (4 hours)
- MAT450: Mathematics Senior Capstone (2 TO 4 hours)
- MAT491: Adv Topics in Mathematics (2 TO 4 hours)

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- Modern Languages

- FRE101: Elementary French I (4 hours)
- FRE102: Elementary French II (4 hours)
- FRE201: Intermediate French I (4 hours)
- FRE202: Intermediate French II (4 hours)
- FRE298: Independent Studies in French (2 TO 4 hours)
- FRE301: Conversation & Composition (4 hours)
- FRE307: French Civilization (4 hours)
- FRE318: Topics in French and Francophone Literatures (4 hours)
- FRE398: Independent Studies in French (2 TO 4 hours)
- GER101: Elementary German I (4 hours)
- GER102: Elementary German II (4 hours)
- GER201: Intermediate German I (4 hours)
- GER202: Intermediate German II (4 hours)
- GER298: Independent Studies in German (2 TO 4 hours)
- GER301: Conversation & Composition (4 hours)
- GER318: Topics in German Culture and Literature (4 hours)
- GER398: Independent Studies in German (1 TO 4 hours)
- GER401: Advanced Conversation (2 hours)
- GER498: Independent Directed Study (2 TO 4 hours)
- SPA101: Elementary Spanish I (4 hours)
- SPA102: Elementary Spanish II (4 hours)
- SPA201: Intermediate Spanish I (4 hours)
- SPA202: Intermediate Spanish II (4 hours)
- SPA290: Spanish for Health and Human Services (2 hours)
- SPA298: Independent Studies in Spanish (4 hours)
- SPA300: Introduction to Spanish Phonetics and Phonology (4 hours)
- SPA301: Conversation and Composition I (4 hours)
- SPA302: Conversation & Composition II (4 hours)
- SPA305: Spanish for the Professions (4 hours)
- SPA307: Latin American Civilization (4 hours)
- SPA308: Hispanic Civilization (4 hours)
- SPA325: Spanish for the Professions (4 hours)
- SPA398: Independent Studies in Spanish (2 TO 4 hours)
- SPA401: Advanced Conversation (2 hours)
- SPA480: Internship/Capstone Internship in Spanish (2 TO 4 hours)
- SPA498: Indep Directed/Capstone Study (2 TO 4 hours)

- Music

- MUS105: Class Piano I (1 hours)
- MUS106: Class Piano II (1 hours)
- MUS107: Class Piano III (1 hours)
- MUS108: Class Piano IV (1 hours)
- MUS111: Music Theory I (3 hours)
- MUS112: Music Theory II (3 hours)
- MUS113: Musicianship I (1 hours)
- MUS114: Musicianship II (1 hours)
- MUS117: Class Voice (1 hours)
- MUS151: History of Jazz (4 hours)
- MUS156: Listening to Classical Music (4 hours)
- MUS157: Beethoven (4 hours)
- MUS158: Rock Music - Roots and History (4 hours)
- MUS159: Electronic Music (4 hours)
- MUS161: Violin (1 TO 2 hours)
- MUS162: Viola (1 TO 2 hours)
- MUS163: Cello (1 TO 2 hours)
- MUS164: Bass (1 TO 2 hours)
- MUS165: Guitar (1 TO 2 hours)
- MUS166: Harp (1 TO 2 hours)
- MUS167: Piano (1 TO 2 hours)
- MUS168: Organ (1 TO 2 hours)
- MUS169: Voice (1 TO 2 hours)
- MUS170: Flute (1 TO 2 hours)
- MUS171: Oboe (1 TO 2 hours)
- MUS172: Clarinet (1 TO 2 hours)
- MUS173: Bassoon (1 TO 2 hours)
- MUS174: Saxophone (1 TO 2 hours)
- MUS175: Horn (1 TO 2 hours)
- MUS176: Trumpet (1 TO 2 hours)
- MUS177: Trombone (1 TO 2 hours)
- MUS178: Tuba (1 TO 2 hours)



- MUS179: Percussion (1 TO 2 hours)
- MUS181: Class Guitar (1 hours)
- MUS182: Introduction to Rhythmic Movement (1 hours)
- MUS183: Men's Chorus (1 hours)
- MUS185: Concert Choir (1 hours)
- MUS186: Chamber Singers (1 hours)
- MUS187: Women's Choir (1 hours)
- MUS188: Wind Symphony (1 hours)
- MUS189: Jazz Lab (1 hours)
- MUS190: Chamber Music (1 hours)
- MUS191: Chamber Orchestra (1 hours)
- MUS192: The Carroll Chorale (1 hours)
- MUS211: Music Theory III (3 hours)
- MUS212: Music Theory IV (3 hours)
- MUS213: Musicianship III (1 hours)
- MUS214: Musicianship IV (1 hours)
- MUS215: Songwriting and Improvisation (1 hours)
- MUS220: Functional Guitar (1 hours)
- MUS251: String Methods (1 hours)
- MUS252: Percussion Methods (1 hours)
- MUS253: Woodwind Methods (1 hours)
- MUS255: Brass Methods (1 hours)
- MUS291: Topics in Music (2 TO 4 hours)
- MUS298: Independent Study in Music (1 TO 4 hours)
- MUS303: Conducting I (2 hours)
- MUS304: Conducting II (2 hours)
- MUS307: Practical Keyboard Harmony (1 hours)
- MUS311: Music History I - Early Music through the Baroque Period (4 hours)
- MUS312: Music History II - The Classic and Romantic Periods (4 hours)
- MUS313: Music History III - The 20th Century (2 hours)
- MUS323: Diction - German and English (1 hours)
- MUS324: Diction - French and Italian (1 hours)
- MUS350: Materials/Techniques Elem Music (2 hours)
- MUS353: Choral Methods and Literature (4 hours)
- MUS354: General Music in the Schools (2 hours)
- MUS355: Instrumental Methods (4 hours)
- MUS357: Choral Literature & Performance Practice (2 hours)
- MUS359: Orff/Kodaly Methods (4 hours)
- MUS366: Voice Pedagogy (2 hours)
- MUS391: Topics in Music (2 TO 4 hours)
- MUS398: Independent Study in Music (1 TO 4 hours)
- MUS430: Vocal Literature (2 hours)
- MUS470: Junior Recital
- MUS471: Senior Recital
- MUS499: Music Capstone (2 hours)

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- Music Therapy
  - MTY101: Introduction to Music Therapy (2 hours)
  - MTY180: Music Therapy Practicum (1 or 2 hours)
  - MTY251: Psychology of Music (3 hours)
  - MTY301: Music Therapy Foundations and Principles (2 hours)
  - MTY304: Influence of Music on Behavior (3 hours)
  - MTY382: Music Therapy Activities for Specific Populations (2 hours)
  - MTY401: Music Therapy Procedures and Applications (2 hours)
  - MTY480: Music Therapy Internship (12 hours)
- New Cultural Experiences Program
  - NCE207: Practicing Intercultural Communication in Thailand (4 hours)
  - NCE302: Russia & Central Asia - History, Environment, and Geography Halfway Around the World (4 hours)
  - NCE305: Reefs, Rainforests and Ruins of Belize (4 hours)
  - NCE309: Germany, Poland and Hungary (4 hours)
  - NCE312: China - Its Modern Reality (4 hours)
  - NCE313: Revising Italy - Travel Writing in the Italian Tradition (4 hours)
  - NCE315: Australia - The Land and the People Down Under (4 hours)
  - NCE316: Multicultural South Africa (4 hours)
  - NCE317: The Cultural and Environmental Geography of Alaska (4 hours)
  - NCE318: Mexico - Culture, Health and Human Services (4 hours)
  - NCE319: Art and Culture of the Ancient and Modern Maya (4 hours)
  - NCE320: Paris - Art and Culture (4 hours)
  - NCE321: Contemporary Germany - Its Culture, Economy, and Politics (4 hours)
  - NCE323: Travel Journals (4 hours)
  - NCE324: Identity, Culture and the European Union (4 hours)
  - NCE325: Politics and Theatre in the UK and USA (4 hours)
  - NCE341: Health Care in Guatemala (4 hours)
- Nursing
  - NRS100: Health Care and Nursing (4 hours)
  - NRS100L: Health Care and Nursing Laboratory
  - NRS230: Health Assessment (4 hours)
  - NRS230L: Health Assessment Laboratory
  - NRS233: Foundations of Nursing Practice (4 hours)
  - NRS234: Foundations - Practicum (2 hours)

- NRS236: Human Pathophysiologic Responses (4 hours)
- NRS300: Critical Inquiry in Nursing Research (2 hours)
- NRS300H: Critical Inquiry in Nursing Research Honors (2 hours)
- NRS310: Mental Health Nursing Care (3 hours)
- NRS312: Family Centered Obstetric Nursing Care (2 hours)
- NRS316: Introduction to Medical Surgical Nursing (4 hours)
- NRS317: Medical Surgical Nursing Practicum (5 hours)
- NRS320: Family Centered Pediatric Nursing Care (2 hours)
- NRS391: Special Topics in Nursing (2-4 hours)
- NRS415: Community Health Practicum (2 hours)
- NRS416: Community Health Nursing Care (3 hours)
- NRS417: Advanced Medical Surgical Nursing (3 hours)
- NRS419: Advanced Medical Surgical Practicum (5 hours)
- NRS429: Health Policy and Administration (3 hours)
- NRS431: Capstone (4 hours)
- NRS432: Professional Practice Preparation (1 hours)
- NRS498: Independent Study in Nursing (1 TO 4 hours)

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- Philosophy
  - PHI101: Introduction to Philosophy (4 hours)
  - PHI105: Introduction to Logic (4 hours)
  - PHI106: Ethics, Values and Judgment (4 hours)
  - PHI192: Environmental Ethics (4 hours)
  - PHI194: Bioethics (4 hours)
  - PHI205: Philosophy, Politics, and Economics (4 hours)
  - PHI206: Ethics (4 hours)
  - PHI206H: Ethics (4 hours)
  - PHI207: History and Philosophy of Science (4 hours)
  - PHI213: Philosophy of Art (4 hours)
  - PHI298: Independent Study in Philosophy (1 TO 4 hours)
  - PHI307: World Philosophy (4 hours)
  - PHI308: Philosophy of Religion (4 hours)
  - PHI320: Ancient and Mediaeval Philosophy (4 hours)
  - PHI321: Modern and Contemporary Philosophy (4 hours)
  - PHI398: Independent Study in Philosophy (1 TO 4 hours)
  - PPE499: Capstone in Philosophy, Politics, and Economics (4 hours)
- Physical and Health Education
  - HED101: Intro to Health Care Skills (1 hours)
  - HED103: Personal and Community Health (4 hours)
  - HED201: Nutrition (2 hours)
  - HED202: Drugs, Society and Human Behavior (2 hours)
  - HED203: Consumerism in Health (2 hours)
  - HED204: Human Sexuality (2 hours)
  - HED205: Community Health (2 hours)
  - HED323: School Health Programs (4 hours)
  - HED353: Special Methods in Teaching Health Education (4 hours)
  - PED102: Basic and Intermediate Swim (2 hours)
  - PED103: Philosophy, Principles & History of Physical Education/Athletics (3 hours)
  - PED110: Basic Weight Training Instruction (1 hours)
  - PED110L: Basic Weight Training Instruction Laboratory
  - PED120: Fundamental Motor Development (4 hours)
  - PED208: Organization and Administration of Physical Activities/Athletics (2 hours)
  - PED214: Teaching Outdoor Activities in Physical Education (2 hours)
  - PED310: Elementary Physical Education Activities (3 hours)
  - PED311: Team Sports and Officiating (3 hours)
  - PED311L: Team Sports and Officiating Laboratory
  - PED312: Individual/Dual and Lifetime Activities (3 hours)
  - PED312L: Individual/Dual and Lifetime Activities Laboratory
  - PED320: Coaching Theory (2 hours)
  - PED321: Coaching Practicum (4 hours)
  - PED328: Elem Phy Ed Activities and Health Education (3 hours)
  - PED353: Capstone: Special Methods in Teaching Physical Education (4 hours)
  - PED391: Special Problems and Research (4 hours)
  - PED398: Special Studies in Physical Educ (1 TO 3 hours)
  - PED411: Adapted Physical Education (4 hours)
  - PED412: Assessment/Program Evaluation in Adapted Physical Education (2 hours)
  - PED414: Field Experience in Adapted P.E. (1 hours)
  - PED421: Psycho-Social Aspects of Physical Activity (4 hours)

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- Physics
  - PHY101: Introductory Physics I (4 hours)
  - PHY101L: Introductory Physics Laboratory
  - PHY102: Introductory Physics II (4 hours)
  - PHY102L: Introductory Physics Laboratory
  - PHY105: Astronomy (4 hours)
  - PHY105L: Astronomy Laboratory
  - PHY203: General Physics I (4 hours)
  - PHY203L: General Physics I Laboratory

- PHY204: General Physics II (4 hours)
- PHY204L: General Physics II Laboratory
- PHY301: Electricity and Magnetism (4 hours)
- PHY301L: Electricity and Magnetism Laboratory
- PHY303: Modern Physics (4 hours)
- PHY303L: Modern Physics Laboratory
- PHY304: Classical Mechanics (4 hours)
- PHY320: Thermodynamics (4 hours)
- PHY380: Engineering Internship (4 hours)
- PHY396: Special Problems and Research (4 hours)
- PHY398: Independent Study in Physics (1 TO 4 hours)
- PHY450: Advanced Experimental Physics (4 hours)
- PHY450L: Advanced Experimental Physics Laboratory
- PHY480: Work-Oriented Experience (4 hours)
- PHY496: Special Problems and Research (4 hours)

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- Physical Therapy

- PTH400: Foundations of Professional Practice (3 hours)
- PTH401: Statistical and Research Methods (3 hours)
- PTH404: Biomechanics (3 hours)
- PTH404L: Biomechanics Laboratory
- PTH405: Neuroscience (3 hours)
- PTH406: Exercise Physiology (3 hours)
- PTH406L: Exercise Physiology Laboratory
- PTH408: Introduction to Patient Management (3 hours)
- PTH408L: Introduction to Patient Management Laboratory
- PTH411: Foundations of Clinical Research (2 hours)
- PTH411L: Foundations of Clinical Research
- PTH412: Tests & Measures (3 hours)
- PTH412L: Tests & Measures Laboratory
- PTH414: Advanced Kinesiology (3 hours)
- PTH414L: Advanced Kinesiology Laboratory
- PTH416: Therapeutic Exercise (4 hours)
- PTH416L: Therapeutic Exercise Lab
- PTH498: Independent Study (1-3 hours)

- Political Science and Global Studies

- POL103: Politics of the World's Nations (4 hours)
- POL141: Intro to American Politics (4 hours)
- POL155: Contemporary Global Politics (4 hours)
- POL200: Social Science Inquiry (4 hours)
- POL269: The American Congress (4 hours)
- POL275: Political Theory (4 hours)
- POL276: Democracy, Globalization, and International Governance (4 hours)
- POL280: Politics and Culture (4 hours)
- POL285: International Conflict and Security (4 hours)
- POL291: Topics in Politics (2 TO 4 hours)
- POL298: Independent Study in Politics (1 TO 4 hours)
- POL301: Politics of Developed Nations (4 hours)
- POL303: Politics of Developing Nations (4 hours)
- POL321: International Law (4 hours)
- POL329: The German Experience (4 hours)
- POL332: Public Policy (4 hours)
- POL335: Public Administration (4 hours)
- POL336: The American Presidency (4 hours)
- POL344: Constitutional Law and Politics (4 hours)
- POL381: Internship in Politics (4 TO 12 hours)
- POL382: Internship in Global Studies (4 hours)
- POL391: Topics in Politics (4 hours)
- POL398: Independent Study in Politics (1 TO 4 hours)
- POL399: Capstone in Political Science and Global Studies (4 hours)
- PPE499: Capstone in Philosophy, Politics, and Economics (4 hours)

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- Psychology

- PSY101: Introductory Psychology (4 hours)
- PSY201: Abnormal Psychology (4 hours)
- PSY205: Statistics and Experimental Design (4 hours)
- PSY205L: Statistics and Experimental Design Lab
- PSY206: Developmental Psychology (4 hours)
- PSY211: Industrial and Organizational Psychology (4 hours)
- PSY221: Life-Span Psychology (4 hours)
- PSY228: Consumer Behavior (4 hours)
- PSY240: Biopsychology (4 hours)
- PSY260: Health Psychology (4 hours)
- PSY303: Experimental Social Psychology (4 hours)
- PSY306: Psychological Testing and Assessment (4 hours)
- PSY307: Experimental Psychology (4 hours)
- PSY307L: Experimental Psychology Lab
- PSY314: Learning and Animal Behavior (4 hours)

- PSY316: Thinking, Problem Solving, and Cognition (4 hours)
- PSY317: Adult Development & Aging (2 hours)
- PSY321: Personality - Theory and Assessment (4 hours)
- PSY391: Special Studies in Psychology (2 hours)
- PSY398: Independent Study in Psychology (1 TO 4 hours)
- PSY401: Behavioral Neuroscience (4 hours)
- PSY401L: Behavioral Neuroscience Laboratory
- PSY403: Capstone-Historical and Modern Viewpoints of Psychology (4 hours)
- PSY414: Research Methods in Behavior Analysis (2 hours)
- PSY480: Internship in Psychology (2 TO 4 hours)
- PSY492: Research Seminar (4 hours)
- PSY498: Independent Study in Psychology (1 TO 4 hours)

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#### • Public Health

- PBH101: Introduction to Public Health (4 hours)
- PBH102: Global Health (4 hours)
- PBH210: Public Health for Communities (4 hours)
- PBH211: Public Health Field Experience (2 hours)
- PBH302: Environmental and Occupational Health (2 hours)
- PBH303: Occupational Health and Safety (2 hours)
- PBH312: Public Health Policy and Administration (4 hours)
- PBH320: Principles of Health Behavior (4 hours)
- PBH324: Program Development, Assessment, and Evaluation in Public Health (4 hours)
- PBH421: Epidemiology (4 hours)
- PBH480: Public Health Internship (6-12 hours)

#### • Recreation Management

- REC203: Therapeutic Recreation Process\* (3 hours)
- REC300: Therapeutic Recreation Assessment and Documentation\* (4 hours)
- REC308: Therapeutic Recreation in Physical Rehabilitation and Behavioral Health\* (4 hours)
- REC310: Facilitation Techniques in Therapeutic Recreation\* (4 hours)
- REC400: Issues and Trends in Therapeutic Recreation\* (3 hours)
- REC480: Internship-Recreation Management (12 hours)

#### • Religion

- REL100: World Religions (4 hours)
- REL102: Introduction to the Hebrew Bible (4 hours)
- REL103: Intro to the New Testament (4 hours)
- REL106: Understanding Religion (4 hours)
- REL108: Introduction to Buddhism (4 hours)
- REL201: Jesus of Nazareth (4 hours)
- REL202: Religious Traditions in America (4 hours)
- REL210: Suffering and Hope (4 hours)
- REL215: Women in Religion (4 hours)
- REL220: Health and Religion (4 hours)
- REL224: Religion and Literature (4 hours)
- REL230: Foundations of Christianity (4 hours)
- REL231: Christianity in the Modern World (4 hours)
- REL291: Topics in Religious Studies (4 hours)
- REL298: Independent Study in Religious Studies (1 TO 4 hours)
- REL306: Asian Religions (4 hours)
- REL308: Philosophy of Religion (4 hours)
- REL310: Powers, Politics, and Pluralism in Biblical Interpretation (4 hours)
- REL316: Judaism, Christianity, and Islam (4 hours)
- REL362: New Testament Greek Tutorial (2 hours)
- REL364: Hebrew Tutorial (2 hours)
- REL380: Internship in Religious Studies (1 TO 4 hours)
- REL391: Topics in Religious Studies (4 hours)
- REL398: Independent Study in Religious Studies (1 TO 4 hours)
- REL480: Internship in Religious Studies (1 TO 4 hours)
- REL499: Capstone: Senior Seminar (4 hours)

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#### • Sociology and Criminal Justice

- SOC101: Introduction to Sociology (4 hours)
- SOC102: Sociology of Social Problems (4 hours)
- SOC102H: Sociology of Social Problems (4 hours)
- SOC103: Introduction to Criminal Justice (4 hours)
- SOC110: Cultural Anthropology (4 hours)
- SOC130: Culture and Crime (4 hours)
- SOC202: Society and Ecology (4 hours)
- SOC202L: Society and Ecology Laboratory
- SOC203: Criminal Procedure, Evidence and Investigation (4 hours)
- SOC204: Introduction to Criminal Law (4 hours)
- SOC211: Juvenile Delinquency (4 hours)
- SOC212: Criminology (4 hours)
- SOC213: Race and Ethnicity Studies in Criminal Justice (4 hours)
- SOC215: Social Gerontology (4 hours)
- SOC217: Social Psychology (4 hours)
- SOC220: Police in Society (4 hours)

- SOC291: Special Topics in Sociology or Criminal Justice (4 hours)
- SOC296: Reading and Research in Sociology (1 TO 3 hours)
- SOC298: Independent Study in Sociology (4 hours)
- SOC301: Social Change and the Future of Society (4 hours)
- SOC302: Complex Organizations and Work Life (4 hours)
- SOC305: Marriage & Family-Contmp Society (4 hours)
- SOC307: Corrections in American Society (4 hours)
- SOC308: Sociological Theory (4 hours)
- SOC311: Methods of Social Research (4 hours)
- SOC318: Sociology of Sex Roles (4 hours)
- SOC340: Victims and Victimology (4 hours)
- SOC380: Internship in Applied Sociology (4 hours)
- SOC390: Sustainability Field Project (2 to 4 credits hours)
- SOC391: Special Topics in Sociology (4 hours)
- SOC396: Reading and Research in Sociology (1 TO 3 hours)
- SOC398: Independent Study in Sociology (4 hours)
- SOC399: Capstone in Sociology (4 hours)
- SOC481: Internship in Criminal Justice (4 hours)
- SOC499: Capstone - What works in criminal justice policy (2 hours)

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- Spanish
  - SPA101: Elementary Spanish I (4 hours)
  - SPA102: Elementary Spanish II (4 hours)
  - SPA201: Intermediate Spanish I (4 hours)
  - SPA202: Intermediate Spanish II (4 hours)
  - SPA290: Spanish for Health and Human Services (2 hours)
  - SPA298: Independent Studies in Spanish (4 hours)
  - SPA300: Introduction to Spanish Phonetics and Phonology (4 hours)
  - SPA301: Conversation and Composition I (4 hours)
  - SPA302: Conversation & Composition II (4 hours)
  - SPA305: Spanish for the Professions (4 hours)
  - SPA307: Latin American Civilization (4 hours)
  - SPA308: Hispanic Civilization (4 hours)
  - SPA325: Spanish for the Professions (4 hours)
  - SPA398: Independent Studies in Spanish (2 TO 4 hours)
  - SPA401: Advanced Conversation (2 hours)
  - SPA480: Internship/Capstone Internship in Spanish (2 TO 4 hours)
  - SPA498: Indep Directed/Capstone Study (2 TO 4 hours)
- Sport and Recreation Administration
  - SRM315: Sport Management Practicum I (1 hours)
  - SRM405: Recreational Programming (4 hours)
  - SRM407: Facility Operation (2 hours)
  - SRM409: Sports Promotion and Event Planning (2 hours)
  - SRM410: Recreation Administration and Supervision (4 hours)
  - SRM435: Sport Management Practicum II (1 hours)
  - SRM480: Capstone: Internship in Sport Management (12 hours)
- Theatre Arts
  - THE100: Theatre Participation (1 hours)
  - THE101: Introduction to Theatre Arts (4 hours)
  - THE101L: Performance Field Trips
  - THE102: Oral Interpretation and Presentation (4 hours)
  - THE111: Introduction to World Dance (4 hours)
  - THE120: Theatre Crew (2 hours)
  - THE121: Theatre Crew (2 hours)
  - THE160: Introduction to Fine Arts Administration (4 hours)
  - THE200: Theatre Workshops (1 TO 2 hours)
  - THE215: Theatre History and Literature I (4 hours)
  - THE216: Theatre History and Literature II (4 hours)
  - THE291: Special Studies/Topics in Theatre (1 TO 4 hours)
  - THE296: Special Studies/Research in Theatre (1 TO 4 hours)
  - THE298: Independent Study in Theatre (1 TO 4 hours)
  - THE300: Theatre Practicum (1 hours)
  - THE301: Contemporary Acting Styles (4 hours)
  - THE302: Period Acting Styles (4 hours)
  - THE305: Principles of Production Management (4 hours)
  - THE306: Principles of Theatre Design (4 hours)
  - THE307: Directing for the Stage (4 hours)
  - THE308: Writing for the Stage (4 hours)
  - THE380: Internship in Theatre Arts (1 TO 4 hours)
  - THE390: Theatre Projects (1 TO 4 hours)
  - THE391: Special Studies/Topics in Theatre (1 TO 4 hours)
  - THE396: Special Studies/Research in Theatre (1 TO 4 hours)
  - THE398: Independent Study in Theatre (1 TO 4 hours)
  - THE460: Applied Theatre - Capstone Experience (2 hours)
  - THE461: Applied Theatre - Capstone Experience (2 hours)
  - THE480: Internship in Theatre Arts (1 TO 4 hours)
  - THE490: Theatre Projects (1 TO 4 hours)

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- Writing
  - ENG199: Reading and Writing in the Sciences (4 hours)
  - WRI380: Internship in Writing (4 hours)
  - WRI391: Topics in Professional Writing (4 hours)
  - WRI496: Writing Major Capstone (4 hours)

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## Course Descriptions

### Accounting

- [ACC100: Personal Finance \(2 hours\)](#)  
The objective of the course is to provide the student with the necessary information and decision-making tools needed to manage his/her personal financial plan. For elective credit only. Open to all majors. (FA only)
- [ACC205: Financial Accounting \(4 hours\)](#)  
A study of the accounting cycle and extensive coverage of various financial topics such as cash, receivables, inventory, liabilities, equity, plant/equipment, and financial statements. (FA and SP)
- [ACC206: Managerial Accounting \(2 hours\)](#)  
Study of the accounting data that aids in management decision making. Topics covered include budgeting, break-even, costing methods, ratio analysis, cash flow, pricing, and inventory control. (FA and SP) Pre-requisite: ACC205
- [ACC207: Intermediate Accounting I \(4 hours\)](#)  
Study of the development of accounting standards underlying financial statements. An in-depth review of the income statement and balance sheet. Recognition, measurement and reporting of cash, receivables, inventory, plant assets, intangibles, liabilities, revenue recognition and present value analysis. (FA only) Pre-requisite: ACC205.
- [ACC208: Intermediate Accounting II \(4 hours\)](#)  
Recognition, measurement and reporting of stockholders' equity, earnings per share, cash flow, income tax allocation, pensions, leases, accounting changes, accounting errors and disclosure reporting. (SP only) Pre-requisite: ACC207.
- [ACC305: Advanced Accounting I \(4 hours\)](#)  
A study of the principles, concepts, and procedures applied to mergers and consolidations, foreign exchange, governmental, non-profit organizations, estates and trusts, insolvency and partnerships. (FA only) Pre-requisite: ACC208.
- [ACC306: Advanced Accounting II \(4 hours\)](#)  
A study of the principles, concepts, and procedures applied to mergers and consolidations, foreign exchange, governmental, non-profit organizations, estates and trusts, insolvency and partnerships. (SP only) Pre-requisite: ACC305 or instructor consent.
- [ACC310: Advanced Cost Accounting and Budgeting \(4 hours\)](#)  
Study of various costing methods and management tools to aid in the decision-making process. Topics covered are job costing, process costing, activity-based costing, standard costing, inventory planning/control, budgeting/responsibility accounting, variable/ absorption costing, cost-volume-profit analysis, cost allocation, transfer pricing, capital budgeting and product/service pricing. (FA only) Pre-requisite: ACC205.
- [ACC324: Advanced Business Law \(4 hours\)](#)  
An advanced study of the current legal environment of businesses for accounting students taking the CPA exam or students interested in a career in law. (SP only) Pre-requisite: BUS290.
- [ACC375: Pre-internship Seminar \(2 hours\)](#)  
This course introduces students to the skills and knowledge needed to successfully compete for internship opportunities. Students develop personal action plans, resumes, interview techniques, networking, critical thinking and self-assessment skills - all crucial preparation for the job market. (Grading is on an S/U basis.) (FA only) Pre-requisite: junior standing.
- [ACC405: Tax Accounting I \(4 hours\)](#)  
Federal and Wisconsin income tax laws and their application to individuals. (FA only) Pre-requisite: ACC205.
- [ACC406: Tax Accounting II \(4 hours\)](#)  
Federal income tax laws and their applications to partnerships, corporations, estates, trusts, and gift and inheritance taxes. (SP only) Pre-requisite: ACC405.
- [ACC407: Auditing \(4 hours\)](#)

The study of general audit procedures, preparation of working papers, various types of reports, professional ethics and legal responsibility. Student will be expected to successfully conduct and complete a comprehensive simulated financial audit project. (FA only) Pre-requisite: ACC306 or consent of instructor.

- [ACC414: Accounting Theory \(4 hours\)](#)  
Comprehensive analysis of the theoretical structure underlying financial and managerial accounting topics. Students must integrate prior knowledge and demonstrate mastery of complex FASB/IFRS issues and updates. Case methodology, oral presentations and written summaries are used in the course. (SP only) Pre-requisite: ACC306 or consent of the instructor.
- [ACC480: Internship in Accounting \(1 TO 12 hours\)](#)  
The internship in accounting provides students with an opportunity to apply the theories and concepts learned in their accounting courses to work experience in the accounting field under the supervision of an external supervisor and faculty instructor. Restrictions: Student must be a declared major or minor in Accounting. Pre-requisites: ACC207 and ACC 208 and approval of the internship instructor. Students may earn a maximum of 12 credits in ACC 480. 40 hours of work are required for each credit. (Grading is on an S/U basis.) With approval of the department chair, a 400 level course offered by the Department of Business, Accounting, and Economics may be substituted for ACC 480 when internship placement is not possible.
- [ACC483: Internship Option-Prior Work Experience \(1 TO 4 hours\)](#)  
Prior entry-level accounting experience may be substituted for the ACC 375 and ACC 480 requirement. Restrictions: Student must be a declared major in accounting. Pre-requisites: Approval of Internship Instructor and Department Chair. Students can earn a maximum of 4 credits through ACC 483. (Grading is on an S/U basis)
- [ACC498: Independent Study in Accounting \(1 TO 4 hours\)](#)  
A course designed to widen the student's knowledge of accounting theory, develop the ability to study independently, and demonstrate aptitude in planning and production of original work. (FA, SP, SU) Prerequisite: Approval of the college dean and consent of instructor.



## Actuarial Science

- [ASC301: Financial Mathematics \(4 hours\)](#)  
Workshop-style course that develops fundamental concepts of financial mathematics and how those concepts are applied in calculating present and accumulated values for various streams of cash flows as a basis for future use in reserving, valuation, pricing, asset/liability management, investment income, capital budgeting and valuing contingent cash flows. Additionally, the course provides an introduction to financial instruments, including derivatives, and the concept of no-arbitrage as it relates to financial mathematics. (SP) Prerequisite: MAT 160.
- [ASC302: Probability \(4 hours\)](#)  
This course develops fundamental probability tools for quantitatively assessing risk. Topics include general probability, univariate probability distributions (including binomial, negative binomial, geometric, hypergeometric, Poisson, uniform, exponential, gamma, and normal), and multivariate probability distributions (including the bivariate normal). Application of these tools to problems encountered in actuarial science is emphasized. (SP) Co-requisite: MAT207. May not be taken for credit by those who have taken MAT312.
- [ASC380: Internship in Actuarial Science \(4 TO 16 hours\)](#)  
Professional work experience in the actuarial sciences under the supervision of faculty and professional actuaries. Course requirements will depend on the type of internship. S/U graded. (FA, WN, SP, SU) Prerequisites: Junior or senior standing and approval of instructor are required prior to registration.
- [ASC401: Financial Economics \(4 hours\)](#)  
Workshop-style course that develops the theoretical basis of certain financial-economic models and the application of those models to insurance and other financial risks. Topics include interest rate models, rational valuation of derivatives securities, simulation, and risk management techniques. (FA, odd years) Prerequisite: ASC 301 and ASC 302.
- [ASC402: Life Contingencies \(4 hours\)](#)  
Workshop-style course that develops theoretical basis of life contingencies and the application of those models to insurance and other financial risks. Topics include survival models, Markov Chain models, life insurances and annuities, and Poisson processes. (FA, even years) Prerequisite: ASC 301 and ASC 302.
- [ASC480: Internship in Actuarial Science \(4 TO 16 hours\)](#)  
Professional work experience in the actuarial sciences under the supervision of faculty and professional actuaries. Course requirements will depend on the type of internship. S/U graded. (FA, WN, SP, SU) Prerequisites: Junior or senior standing and approval of instructor are required prior to registration.

## Anatomy and Physiology

- [ANP130: Introduction to Human Anatomy and Physiology I \(4 hours\)](#)  
This is the first of two courses which present the unifying concepts of anatomy and physiology required for understanding the human body as a structural and functional unit. This course emphasizes the mechanisms that underlie the normal functions of cells, tissues, organs, and organ systems. This course includes the study of basic biochemistry, cell biology, histology, and the integumentary, skeletal, muscular, nervous, and endocrine systems. Four hours lecture and three hours laboratory. (Required course fee) (FA, SU)
- [ANP130L: Intro to Human Anat and Phys I Lab](#)  
Laboratory component for ANP130.
- [ANP140: Introduction to Human Anatomy and Physiology II \(4 hours\)](#)  
This is the second of two courses that present the unifying concepts of anatomy and physiology required for understanding the human body as a structural and functional unit. This course includes the study of the cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. A body systems approach is used to emphasize the interrelationships between structure and function of the gross and microscopic levels of organization of the human body. Four hours lecture and three hours laboratory. (Required course fee) (SP, SU) Prerequisite: ANP 130 or equivalent is strongly recommended.
- [ANP140L: Intro to Human Anat and Phys II Lab](#)  
Laboratory component for ANP140.
- [ANP402: Human Anatomy \(4 hours\)](#)  
The microscopic and gross anatomy of the skeletal, muscular, integumentary, nervous, cardiovascular, lymphatic, respiratory, renal, digestive, endocrine, and reproductive systems are studied. Multi-media software is used to dissect the male and female body in anterior, posterior, medial, and lateral views. Histologies, radiologies, cross-sections, and MRIs are linked to the anatomy. Models are also employed to study the structure of the human body. Palpation laboratories are also integrated into the course. (Required course fee) (FA, SU) Prerequisites: Junior standing; BIO 225 or BIO 130 and 140 or ANP 130 and 140; or instructor consent.
- [ANP402L: Human Anatomy Laboratory](#)  
Laboratory component for ANP402.
- [ANP403: Human Physiology \(4 hours\)](#)  
Fundamental concepts related to the normal function of the human body are presented. Basic pathophysiological concepts are also introduced. This course includes the study of the nervous, endocrine, muscular, cardiovascular, respiratory, digestive, urinary, and reproductive systems. Experimental design, data analysis, computer simulations, case studies, and discussion/presentation of primary literature are incorporated into the course. Four hours lecture and three hours laboratory. (Required course fee) (SP, SU) Prerequisites: Junior standing; BIO 225 or BIO 130 and BIO 140 or ANP 130 and ANP 140; and CHE 110 or CHE 101 and CHE 102.
- [ANP403L: Human Physiology Laboratory](#)  
Laboratory component for ANP403.

## Animal Behavior

- [ANB101: The Science of Animal Behavior \(4 hours\)](#)  
Students will learn to analyze the behavior of animals by investigating questions of causation, development, function, and evolutionary history. Teaching methods will include inquiry-based approaches in both class and laboratory sessions. Animal Behavior major or minor or instructor consent. BIO120 recommended.
- [ANB301: Theory and Practice of Animal Training \(3 hours\)](#)  
This course provides an experiential venue for learning to use the methods and techniques described by theories of animal training. Students will actively assume the role of trainer as they work with animals within the environment of a large animal shelter, applying respondent and operant conditioning theory in activities germane to a career in animal behavior and training. The focus is on companion animal training and behavior analysis; however, methods and techniques used can be generalized to non-companion species. The course is taught at the Humane Animal Welfare Society in Waukesha.
- [ANB302: Winter Ecology of Wolf and Lynx \(3 hours\)](#)  
This course covers a broad range of topics related to wildlife. The focus will be the white-tailed deer, gray wolf, lynx, and other MN predators, but all animals directly or indirectly associated with or affected by these species may be included. The course is field-oriented and includes opportunities for backcountry travel, wildlife observation and tracking, as an introduction to habitats, how wildlife respond to natural and artificial disturbance, and human factors impacting wildlife. Additional topics include wildlife research techniques, data acquisition and analysis, and management practices. The course is taught at the Audubon Center of the North Woods in Sandstone, MN. Additional tuition is required and students provide their own transportation to the Audubon Center. (WN)
- [ANB380: Internship in Animal Behavior \(2-4 hours\)](#)  
The internship provides an opportunity to experience and better understand career opportunities in Animal Behavior, while also allowing a student to pursue a particular area of interest in greater depth than cannot typically be accomplished in more traditional course settings. (FA, SP, SU). Prerequisites: Junior standing and consent of instructor.

## Art

- [ART103: Prehistoric to Renaissance- Art History Survey \(4 hours\)](#)  
General Education F1. A survey of painting, sculpture, architecture and other visual arts from approximately 15,000 BC through early Renaissance. Explores historical, philosophical and cultural influences on artistic practices in the development of civilizations.
- [ART104: Renaissance to Early Modernism- Art History Survey \(4 hours\)](#)  
General Education F1. A survey of painting, sculpture, architecture and other visual arts from the 14th century through Impressionism (approximately 1880). Explores historical, philosophical and cultural influences on artistic practices in the development of western civilization.
- [ART106: Drawing and Composition \(4 hours\)](#)  
General Education F1. An introduction to drawing with emphasis on developing observational skills using a limited variety of materials. (Required course fee) (FA, SP, SU)
- [ART107: Beginning Design 2D and 3D \(4 hours\)](#)  
General Education F1. A multi-imagery approach to solving design problems as related to fine and commercial art. (Required course fee) (FA, SP)
- [ART201: Painting I \(4 hours\)](#)  
General Education F2. An introduction to the study of oil painting with an emphasis on technique, color, composition using a variety of supports including stretched canvas, wood, and paper. Subject matter will focus on issues of space, place and the still life. (Required course fee) (FA, SP)  
Prerequisite: ART 106 or ART107 consent of instructor.
- [ART206: Intermediate and Life Drawing \(4 hours\)](#)  
This course continues development of composition ideas in drawing with an emphasis on drawing as a visual expression requiring thought, visual clarity and imagination. A minimum of one third of the course will be drawing from the nude model. (Required course fee) (FA) Prerequisite: ART 106
- [ART209: Photography I \(4 hours\)](#)  
General Education F1. The student learns basic skills in digital photography and directs this knowledge toward creative expression with strong emphasis on design and composition. An adjustable digital camera required and will be available for rental. (Required course fee) (FA, SP)
- [ART211: Gallery/Museum Experience \(1 TO 2 hours\)](#)  
Preparing gallery space, scheduling exhibitions and arranging and hanging shows. Working with the Carroll University permanent collection of Wisconsin artists gaining restoration experience in matting, framing and repairing. Enrollment recommended during semester of senior exhibition. May be repeated up to 4 credits. (FA, SP) Prerequisite: Art major/minor or consent of instructor.
- [ART212: Introduction to Book Art \(4 hours\)](#)  
General Education F2. This course will introduce students to the traditions and methods of the handmade book, as well as the expressive possibilities available with book art.
- [ART215: History of Photography \(4 hours\)](#)  
General Education F2. Students will study the origins and traditions of photography in both artistic and technological terms. The course will trace the evolution of photography from its beginnings in 1839 to the present. Through reading, writing, research, and oral assignments, students will learn the major figures in photography and examine important critical, cultural and social issues. Primary emphasis will be placed on cultural and aesthetic concerns of key figures in the history of photography. (FA)
- [ART220: Sculpture I \(4 hours\)](#)  
General Education F2. An introduction to a variety of materials, shop equipment, and contemporary sculptors in order to expose students to the broad possibilities of sculptural expression. (Required course fee) (SP) Prerequisite: ART 106 or ART 107 or ART 225.
- [ART223: Creative Arts for Children \(2 hours\)](#)  
Focus is on children's creative expression and integration of art with curricular needs in K-6 education. This course does not count toward an art major. (Required course fee) (FA, SP)  
Prerequisite: EDU 203.

- [ART225: Ceramics I \(4 hours\)](#)  
General Education F1. A serious exploration of clay as an artistic medium. This class introduces the beginner to a variety of techniques with an emphasis on hand-building. (Required course fee) (FA, SP, SU)
- [ART230: Printmaking I \(4 hours\)](#)  
General Education F2. A study of drawing and composition applied to the making of multiples. The course introduces the media of relief serigraphy, and etching with some opportunity for the student to specialize. (Required course fee) (FA, SP) Prerequisites: ART 106 or ART 107 or consent of instructor.
- [ART235: Art Metals \(4 hours\)](#)  
This course covers some fundamentals of jewelry and metalsmithing including basic hand-tool knowledge fabrication techniques, soldering, stone setting and an introduction to the history of jewelry and contemporary metalwork. (Required course fee)
- [ART258: Visual Communication \(4 hours\)](#)  
General Education F2. This course is designed to help students understand aesthetic issues in art and design. Students will become familiar with the field of visual communication. Students will develop skills communicating with text and image through a series of studio assignments requiring problem-solving, conceptualizing, and critical thinking. Course topics will focus on the history, culture, social and technological aspects of communicating visually along with the role of the maker in raising awareness and stimulating thought. (FA)
- [ART291: Special Topics in Art \(2 TO 4 hours\)](#)  
Study of a special topic in art that is not covered in regular course offerings. This could be a studio or art history based course. The topic will be announced before registration.
- [ART298: Independent Study \(1 TO 4 hours\)](#)  
Independent study of selected areas already covered by a studio course. (Required course fee) (FA, SP) Prerequisite: Approval of divisional dean and consent of instructor.
- [ART300: Early Modernism to Present-Art History Survey \(4 hours\)](#)  
A survey of painting, sculpture, architecture and other visual arts from Postimpressionism (approximately 1880's) to present. Explores historical, philosophical and cultural influences on artistic practices in the development of western civilization. (SP) Prerequisite: ART 104 recommended.
- [ART301: Painting II \(4 hours\)](#)  
Intermediate level study of oil painting with an emphasis on self-expression and continued skill development. Subject matter will focus on abstract issues as well as introduction to narrative ideas. (Required course fee) (SP) Prerequisites: ART 201 or consent of instructor.
- [ART306: Advanced and Life Drawing \(4 hours\)](#)  
A continuation of ART 202 with more thematic development. A minimum of one third of the course will be drawing from the nude model. Taught simultaneously with ART 206. (Required course fee) Prerequisite: ART 206.
- [ART309: Photography II - Fine Art \(4 hours\)](#)  
General Education F2. Advanced photographic techniques in both black and white and color with further development of creative expression. Adjustable camera required. (Required course fee) Prerequisite: ART 209.
- [ART310: Photography II - Commercial \(4 hours\)](#)  
General Education F2. Advanced photographic techniques in both black and white, color and digital with emphasis in commercial photography. Adjustable camera required. (Required course fee) (FA) Prerequisite: ART 209.
- [ART314: Photography II Studio Lighting \(4 hours\)](#)  
General Education F2. Advanced photographic techniques with emphasis in the practices of studio lighting for photography. Adjustable digital camera required. (Required course fee) Prerequisite: ART209. (SP only)

- [ART313: Travel Journals-Italy \(4 hours\)](#)  
Students will read and discuss travel writing from the region of study as well as practice the writing and drawing skills necessary to record experiences and observations. As part of the course students will travel over Spring Break, or during May term, to the country of focus. Also offered as NCEP 313. (SP, odd years) Prerequisite: Consent of instructor.
- [ART320: Sculpture II \(4 hours\)](#)  
This course is taught simultaneously with ART 220. Individually created problems in sculpture that focus on continued development of skills and on thematic development. (Required course fee) (SP) Prerequisite: ART 220.
- [ART325: Ceramics II \(4 hours\)](#)  
Individually created problems in ceramics as well as advanced study in glazing and firing. (Required course fee) Prerequisite: ART 225.
- [ART330: Printmaking II \(4 hours\)](#)  
This course is taught simultaneously with ART 230. Advanced study in graphics with opportunity for self-direction in a concentration on one or two media. (Required course fee) (FA) Prerequisite: ART 230.
- [ART340: Advanced Media Studies \(4 hours\)](#)  
This course is designed so that students who have had the beginning and intermediate courses in a specific medium can continue their study in this area with specific focus. Students are expected to develop a body of work in a series. (Required course fee) (SP) Prerequisites: The beginning and intermediate course in the same medium, or consent of the instructor. (Junior standing recommended)
- [ART353: Methods of Teaching Secondary Art \(2 hours\)](#)  
This course is not included in an art major or minor but is part of the professional education program. (FA) Prerequisite: Admission to the Teacher Education Program.
- [ART391: Special Topics in Art \(4 hours\)](#)  
Study of a special topic in art that is not covered in regular course offerings. This could be a studio or art history based course. The topic will be announced before registration.
- [ART398: Independent Study in Art \(1 TO 4 hours\)](#)  
Independent study of selected areas already covered by a studio course. (Required course fee) (FA, SP) Prerequisite: Approval of divisional dean and consent of instructor.
- [ART401: Painting III \(4 hours\)](#)  
This course continues development in painting technique from Painting II, focusing on experiments in composition, exploring painting as process, and contemporary painting issues. In this course you will be required to do research and create a series of paintings. (Required course fee) (SP) Prerequisite: ART 301.
- [ART480: Internship in Art \(1 TO 4 hours\)](#)  
Supervised professional work experience. Written report required. Limited to two semesters (8 credits) which will apply toward degree. (FA, SP, SU) Prerequisite: Consent of instructor.
- [ART490: Capstone in Art \(4 hours\)](#)  
Preparation for senior exhibitions through regular critiques and research into contemporary art issues. Professional development in writing and speaking about art as well as portfolio preparation. (FA) Prerequisite: Senior standing.

## Athletic Training

- [ATH101: Athletic Training Seminar I \(2 hours\)](#)  
This course will provide an overview of basic athletic training theory and techniques that is useful for those involved with athletics and physical activity. The student will gain an understanding of basic anatomy and common injuries associated with physical activity. Other topic areas that will be addressed include: prevention and management of injury, emergency medical plans, blood borne pathogen precautions, nutritional issues, and legal matters and risk management. Overall, this course will introduce the student to the sports medicine team, their roles and responsibilities, and how they themselves are a contributing member of the sports medicine team. (Required course fee) (SP)
- [ATH101L: Athletic Training Seminar I Lab](#)  
Laboratory component for ATH101.
- [ATH102: Athletic Training Seminar II \(2 hours\)](#)  
This course will provide students with basic skills and knowledge used in the athletic training profession. It will include discussions regarding the role of preventative techniques, emergency management plan, injury treatment methods, components of a pre-participation exam, and wound management techniques. Competencies for injury prevention will be taught including developing an emergency plan, vision screenings, wound management, advanced taping techniques, wrapping techniques, and taking vital signs. (Required course fee) (FA)
- [ATH102L: Athletic Training Seminar II Laboratory](#)  
Laboratory component for ATH102.
- [ATH301: Assessment and Evaluation I \(4 hours\)](#)  
This course will provide students with the knowledge and skills for clinical and on-the-field musculoskeletal assessment and evaluation of the upper and lower extremities for physically active people. General topics for the course will include patient care, interviewing and history taking, determining subjective and objective findings, and applying assessment and evaluation skills for the upper and lower extremities. Specific injuries and conditions specific to each extremity will be discussed as well as emergency, management, referral and return to participation measures for the physically active. (FA) Prerequisites: Professional phase of Athletic Training Program standing or consent of instructor.
- [ATH301L: Assessment and Evaluation I Laboratory](#)  
Laboratory component for ATH301.
- [ATH302: Assessment and Evaluation II \(4 hours\)](#)  
This course provides students with the knowledge and skills for assessment and evaluation of the trunk and thorax, general medical conditions for systemic illnesses including viruses and skin conditions. Topics for the course include patient care, patient interviewing skills, history taking, subjective and objective findings, and assessment and evaluation skills using problem solving/scientific methods. (SP) Prerequisites: Professional phase of Athletic Training Program standing or consent of instructor.
- [ATH302L: Assessment and Evaluation II Laboratory](#)  
Laboratory component for ATH302.
- [ATH304: Therapeutic Modalities \(4 hours\)](#)  
This course applies assessment and evaluation skills to develop goals and treatment plans for physically active people with noted impairments and pathologies. Students are exposed to the physical and therapeutic properties of modalities and their physiologic effects on the human body including impact on the tissue healing continuum. Students are exposed to the physiologic rationales for modality usage and demonstrate the safe and effective use of cryotherapy, thermotherapy, diathermy, electrotherapy, ultrasound, traction, intermittent compression, EMG biofeedback, laser, continuous passive motion, and therapeutic massage. (SP) Prerequisites: Professional phase of Athletic Training Program standing or consent of instructor.
- [ATH304L: Therapeutic Modalities Lab](#)  
Laboratory component for ATH304.



- [ATH307: General Medicine and Pharmacology for Athletic Training \(2 hours\)](#)  
This course will provide students with the knowledge and skills for assessment and evaluation of general medical conditions and systemic illnesses. Topics for course will include patient care, patient interviewing skills, history taking, subjective and objective findings, and assessment and evaluation skills using problem solving/scientific methods, pharmacodynamics and therapeutic medications and drug categories that are pertinent to the treatment of the physically active and/or how they may impact athletic performance and health. Prerequisite: Good standing in the Athletic Training Education Program. (SP)
- [ATH312: Athletic Training Practicum I \(2 hours\)](#)  
Students will gain experience in the field of athletic training and be expected to apply and perform competencies previously taught in the curriculum. Students will gain experience working with upper/lower extremity sports to include baseball, softball, track, soccer, wrestling, and basketball; attend a surgical experience and orthopedic rounds for the spine; orthopedic treatment and rehabilitation experience; and general medicine experience. (SP) Prerequisites: Professional phase of Athletic Training Program standing.
- [ATH403: Applied Exercise for Musculoskeletal Injuries \(4 hours\)](#)  
The course will explore the foundation for rehabilitation and reconditioning of physically active populations. Pathology of tissue injury and repair will be discussed. Progressions for range of motion, strength, speed, power, neuromuscular control, proprioception and coordination, agility, cardiorespiratory endurance, and mobilization techniques will be explored. (FA) Prerequisites: Professional phase of Athletic Training Program standing or consent of instructor.
- [ATH403L: Applied Exercise for Musculoskeletal Injuries Laboratory](#)  
Laboratory component for ATH403.
- [ATH405: Admin of Athletic Training \(2 hours\)](#)  
This course covers topics associated with the administration and management of an athletic training facility and staff. These topics will be covered through lecture, class discussion, group work, and assignments. Some of the topics that will be covered include: management theories and styles, human resources, finances, facility design, information management, insurance, legal aspects/risk management, ethics, pre-participation physicals, developing a referral system, drug testing programs, and organizational bodies that provide governance/guidance to the field of athletic training/health care. (FA) Prerequisites: Professional phase of Athletic Training Program standing or consent of instructor.
- [ATH407: Athletic Training Seminar III \(2 hours\)](#)  
This course will provide an overview of the domains of athletic training and the implications that clinical proficiencies have in athletic training and their role in the day to day management of an athletic training facility. This will serve as a forum to discuss and review skills and topics prevalent to the entry-level athletic trainer. This course also assists the student in becoming knowledgeable in the BOC exam process. (FA) Prerequisites: Professional phase of Athletic Training Program standing.
- [ATH411: Athletic Training Practicum II \(2 hours\)](#)  
Students will gain experience in the field of athletic training and be expected to apply and perform competencies previously taught in the curriculum. Students will gain experience working with fall/winter sports to include football, soccer, basketball, and cross country at the university and/or high school level; football game coverage; professional sports; outpatient rehabilitation clinic; health and fitness setting; industrial setting; general medicine; emergency settings. (FA) Prerequisites: Professional phase of Athletic Training Program standing or consent of instructor.
- [ATH499: Capstone-Internship in Athletic Training \(14 hours\)](#)  
Students will gain experience in the field of athletic training and perform competencies and display knowledge expected of the entry-level certified athletic trainer outlined by the National Athletic Trainers Association. This internship experience is directly supervised by a certified athletic trainer or health care provider. Students will present a case study modeled after the Journal of Athletic Training's format for a case study and present to faculty and students. (SP, FA) Prerequisites: Professional phase of Athletic Training Program standing.



## Aviation Science

- [AVS101: Aviation Science I \(4 hours\)](#)  
A course which introduces basic concepts of aviation knowledge sufficient to prepare the student for completion of the FAA private pilot knowledge test. Content includes aerodynamics, aircraft systems, flight environment, weather, FAA regulations, aircraft performance, human factors, navigation and cross country flight planning. (Students must meet with course instructor prior to first class.)
- [AVS102: Aviation Science II \(4 hours\)](#)  
A continuation of AVS101. This course continues with the preparation of students for completion of the FAA private pilot knowledge test. Topics include: cross country planning, navigational systems, and visual and instrument flight rules (VFR/IFR). Prerequisite AVS101 (New students must meet with course instructor prior to first class)
- [AVS201: Advanced Aviation Science I \(4 hours\)](#)  
A course which introduces advanced concepts of aviation knowledge sufficient to prepare the student for successful completion of the FAA instrument and commercial knowledge tests. In combination with flight lab courses, this effort leads to completion of advanced rating or certification at the commercial/IFR level. Content includes FAA Regulations that apply to IFR and Commercial training (FAR 61.65, 61.125 a-d, ), ATC systems, IFR Navigation, IFR charts, IFR approach procedures, Weather systems and wind shear avoidance, aeronautical decision making and crew management, NTSB reporting requirements, night and high altitude operations, aircraft performance limitations, use of the national airspace system. Prerequisite AVS102 (Students must meet with course instructor prior to first class.)
- [AVS202: Advanced Aviation Science II \(4 hours\)](#)  
A course which introduces advanced concepts of aviation knowledge sufficient to prepare the student for successful completion of the FAA instrument and commercial knowledge tests. In combination with flight lab courses, this effort leads to completion of advanced rating or certification at the commercial/IFR level. Content includes FAA Regulations that apply to IFR and Commercial training (FAR 61.65, 61.125 a-d, ), ATC systems, IFR Navigation, IFR charts, IFR approach procedures, Weather systems and wind shear avoidance, aeronautical decision making and crew management, NTSB reporting requirements, night and high altitude operations, aircraft performance limitations, use of the national airspace system. Prerequisite AVS201 (Students must meet with course instructor prior to first class.)

## Biology

- [BIO120: General Biology I \(4 hours\)](#)  
General Education N1. This course investigates the origins and diversity of life and how organisms interact with each other and their environment. Students will learn how evolutionary principles provide the foundation for understanding life throughout Earth's history. Case studies and student research during laboratory will develop the ability of students to apply their knowledge of how organisms interact at different biological scales. This is the first course in the Biology major and is traditionally challenging for non-science majors. Four hours lecture/discussion and two and one half hours laboratory. (Required course fee) (FA)
- [BIO120L: General Biology I Laboratory](#)  
Laboratory component for BIO120.
- [BIO125: General Biology II \(4 hours\)](#)  
This course investigates the structure, function, and biochemistry of cells. Students will learn how evolutionary principles provide the foundation for understanding the cellular processes that support life. Case studies and student research during laboratory will develop the ability of students to apply their knowledge of how underlying cellular processes explain complex organismal functions. Four hours lecture/discussion and two and one half hours laboratory. (Required course fee) (SP) Prerequisite: BIO 120.
- [BIO125L: General Biology II Laboratory](#)  
Laboratory component for BIO125.
- [BIO131: Genetics in Family and Society \(4 hours\)](#)  
General Education N1. This course will introduce non-science majors to human genetics and the scientific way of knowing. Students will learn how DNA determines traits and how traits are inherited. Students will also learn how modern genetic technologies influence the products we buy, our health and, potentially, our genetic futures. The relationship between the scientific method and our understanding of human genetics will be stressed, and students will have the opportunity to propose and perform an experiment of their own design. Four hours lecture/discussion and three hours laboratory. (Required course fee) (FA)
- [BIO131L: Genetics in Family and Society Lab](#)  
Laboratory component for BIO131.
- [BIO212: Microbiology for the Health Sciences \(4 hours\)](#)  
This course examines the fundamentals of microbiology (structure, metabolism, genetics, and growth) and surveys the microbial world. The interaction between microbe and host and the diseases caused by microbes is examined. Four hours of lecture/ discussion and two two-hour laboratories. (Required course fee) (FA, SP, SU) Prerequisites: ANP 130 or BIO 130; CHE 102 or concurrent registration; or instructor consent.
- [BIO212L: Microbiology for the Health Sciences Laboratory](#)  
Laboratory component for BIO212.
- [BIO220: Genetics \(4 hours\)](#)  
This course investigates molecular, classical and population genetics to highlight how evolutionary principles are based on genetic processes. Students will learn the molecular processes that govern gene expression, genetic diversity, and inheritance. Students will also discuss the role of genetic research in current society. Laboratory periods will give students hands on experience in several techniques used in modern genetic research. Four hours lecture and two and half hours laboratory. (Required course fee) (FA) Prerequisite: BIO 125.
- [BIO220L: Genetics Laboratory](#)  
Laboratory component for BIO220.
- [BIO225: Organismal Physiology \(4 hours\)](#)  
This course investigates the diverse of form and function of plants and animals at the physiological level. Students will learn the cellular and biochemical basis of physiological processes and the diversity of organismal forms, as well as an in-depth study of the biological adaptations of plants

and animals to cope with the environment. Using comparative experiments, the laboratory is designed to solidify the concepts of physiology learned in lecture and to develop the ability of the students to apply their understanding of physiological mechanisms in diverse organisms. Four hours lecture and three hours laboratory. (Required course fee) (SP) Prerequisite: BIO 220.

- [BIO225L: Organismal Physiology Laboratory](#)  
Laboratory component for BIO225.
- [BIO271: Clinical Immunology \(4 hours\)](#)  
This course covers the theory and application of immunology. Students will learn about the development and function of the immune system including immune responses, antigen-antibody reactions, intercellular communication, and autoimmune and immunodeficiency disorders. The course will emphasize the principles and performance of protocols in cellular immunology, immunochemistry, and clinical serology. Four hours lecture and three hours laboratory. (Required course fee) Prerequisites: ANP 140 and CHE 102.
- [BIO271L: Clinical Immunology Laboratory](#)  
Laboratory component for BIO271.
- [BIO322: Comparative Vertebrate Zoology \(4 hours\)](#)  
This course examines the anatomical similarities and differences among major vertebrate classes. The majority of the lecture material explores the evolution and diversity of structure and function in vertebrate systems. The application of morphology in current science, specifically systematics and ecological morphology will also be discussed. The laboratory will emphasize the lecture material through dissection of taxonomic representatives, systematics and experiments in ecological morphology. Four hours lecture/discussion and three hours of laboratory. (Required course fee) (FA) Prerequisite: BIO 225 or instructor consent.
- [BIO322L: Comparative Vertebrate Zoology Laboratory](#)  
Laboratory component for BIO322.
- [BIO332: Gene Manipulation and Genomics \(4 hours\)](#)  
This course introduces students to the fields of gene manipulation and genomics through an integrated laboratory/lecture/discussion approach. Students will gain hands-on experience with the basic methods, the biological basis for those methods, and a practical understanding of how they are applied in the fields of medicine, basic science research, environmental science, ethics, and law. (Required course fee) (FA, even years) Prerequisite: BIO 220 or instructor consent.
- [BIO332L: Gene Manipulation and Genomics Lab](#)  
Laboratory component for BIO332.
- [BIO333: Ecology \(4 hours\)](#)  
This course will develop students understanding of ecological and evolutionary processes in populations, communities, and ecosystems and allow students to explore the diversity of methods used in field biology. Course readings will draw heavily on primary literature. Four hours lecture/discussion and four hours laboratory. (Required course fee) (FA) Prerequisite: BIO 225 or ENV 201, or instructor consent.
- [BIO333L: Ecology Laboratory](#)  
Laboratory component for BIO333.
- [BIO350: Endocrinology \(4 hours\)](#)  
The structural and functional classification of hormones, principles of hormone action, and the regulation of body functions by the endocrine system are presented. Special emphasis is placed on species differences and evolutionary changes in some selected hormone systems as they relate to homeostasis. Small group discussions, clinical cases, research article presentations, and grant writing are included. (SP) Prerequisite: BIO 225 or instructor consent.
- [BIO360: Aquatic Ecology \(4 hours\)](#)  
An advanced ecology course that builds upon the Biology core courses. This course explores the basic ecology of wetlands, lakes, and streams. Students will examine physical and chemical processes that are largely responsible for the biological responses evident in these different

habitat types. The lecture component draws about half of its material from the textbook with the other half relying heavily upon peer-reviewed scientific literature. Laboratory activities (a three-hour laboratory is part of the course) further examine and reinforce ecological concepts derived from lecture and readings. (Required course fee) (SP) Prerequisite: BIO 225 or ENV 201, or instructor consent.

- [BIO360L: Aquatic Ecology Laboratory](#)  
Laboratory component for BIO360.
- [BIO399: Capstone in Biological Sciences \(4 hours\)](#)  
This course allows students to synthesize their understanding of biology through exploration of contemporary issues in biology across multiple biological scales. Students will also explore case studies related to ethical practice in science and develop skills necessary to transition to future careers in biology. Four hours lecture/ discussion, may be taught in a hybrid format. (FA, SP) Prerequisites: Junior standing; BIO 225.
- [BIO412: Microbiology \(4 hours\)](#)  
Most microorganisms are beneficial to mankind; some microbes decompose and recycle nutrients in the environment and some microbes protect humans from other disease-causing microbes. This course will investigate the molecular and structural properties of a variety of microorganism, the human immune system that has evolved to protect us from pathogenic microbes, and the immune evasion strategies employed by a variety of pathogenic microbes. Students will gain experience in traditional and newer microbiology techniques during laboratory. Four hours lecture and four hours laboratory (two hour lab twice a week). (Required course fee)(SP) Prerequisite: BIO220 or instructor consent.
- [BIO412L: Microbiology Laboratory](#)  
Laboratory component for BIO412.
- [BIO417: Behavioral Ecology \(4 hours\)](#)  
This course investigates the biological bases of animal behavior, focusing particularly on the evolution of social behavior in nonhuman animals. Theoretical foundations of the field as well as their practical applications are studied through discussion/lecture/activities. Experience in experimental design and observation techniques are developed through studies of animal behavior. These experiences culminate in a final research project of the student's own design. Four hours lecture/discussion and four hours laboratory. (Required course fee) (FA) Prerequisite: BIO 220 and at least junior standing; or instructor consent.
- [BIO417L: Behavioral Ecology Laboratory](#)  
Laboratory component for BIO417.
- [BIO452: Cell Biology \(4 hours\)](#)  
In this course, basic principles of cell physiology, molecular biology, biochemistry, and biophysics are studied in relation to the structure and function of cells and their organelles through an integrated laboratory/lecture/discussion approach. Four hours lecture/discussion and three hours laboratory. (Required course fee) (FA) Prerequisite: BIO 220 or instructor consent.
- [BIO452L: Cell Biology Laboratory](#)  
Laboratory component for BIO452.
- [BIO462: Conservation Biology \(4 hours\)](#)  
Using basic and applied science, students will explore how populations, communities and ecosystems are managed and preserved in the face of ever-growing threats from human activities. We will also explore the ideas of resilience and resistance of biological systems to outside influence, including how natural systems recover with and without intervention. The functioning of biological systems will be placed into the context of human influence, philosophical approaches and ethics. Field trips may replace some classes. Prerequisites: BIO225 or ENV201 or consent of the instructor. (SP even years)
- [BIO480: Internship in Biology \(1 TO 4 hours\)](#)

This internship places students in industry, hospital, field, health agency, laboratory, school, or other professional settings to obtain on-the-job experience and develop skills relevant to future career opportunities. The BIO 480 Internship differs from the BIO 380 Internship because it incorporates application of research-based skills to the internship experience. Prerequisites: BIO 225 and instructor consent.

- [BIO485: Research in Biology \(1 TO 4 hours\)](#)  
This experience involves independent laboratory or field-based research of selected areas in biology under supervision of a faculty member. Students will develop sufficient mastery of their system of interest to allow them to acquire data appropriate for resolution of their specific problem. Prerequisite: Instructor consent.
- [BIO491: Special Topics in Biology \(1 TO 4 hours\)](#)  
This course is a study of a selected topic not covered in regular course offerings. Lecture and discussion. The topic will be announced prior to registration.
- [BIO498: Independent Study \(1 TO 4 hours\)](#)  
This experience involves independent study of selected areas in biology under supervision of a faculty member that generally does not involve laboratory work. Prerequisite: Approval of the department chair and instructor consent.

## Business

- **BUS101: Introduction to Business (4 hours)**  
This course is designed to define and describe business-related terminology and concepts and expose students to the various subjects covered in the business world. Topics covered include the global perspective of business; environmental issues; current business practices; marketing, management, finance, accounting, information systems, and the impact of the Internet on business. (FA, SP)
- **BUS260: Ethics in Business, Govt, and Society (4 hours)**  
General Education S1. An interdisciplinary course that deals with the nature and scope of business/ government relationships. The emphasis is on ethical and social issues affecting society's stakeholder groups (consumers, owners, employees, communities and environmentalists) and the challenges for business in the future. It encourages comparative analysis of business ethics with the moral standards of the world community. (FA only)
- **BUS265: Human Resource Management (4 hours)**  
The study of managerial responsibilities for human resources in the areas of productivity, quality of work life, compensation and job design. The course material deals with the recognition that an organization's most valuable resource is its personnel. The course is consistent with the systems orientation of human resource management, which recognizes the interrelationship of the personnel functions. (SP only)
- **BUS290: Principles of Business Law (2 hours)**  
A study of the legal environment including the nature and sources of law, court systems, litigation, and alternative dispute resolution; constitutional and administrative law, tort law and product liability, contract law, agency law; business organizations; business ethics and social responsibility; international law; and selected topics of government regulation of business including antitrust law, employment law, environment law, and securities regulation. (If not completed within the past five years, no credit will be granted. The student has the option of retaking the course for credit or taking an examination for credit to show mastery of the current subject matter.) (FA and SP)
- **BUS291: Special Topics (1 TO 4 hours)**  
A study of selected processes, developments, problems or issues in business administration or economics that are not covered in other courses. Changing topics may be drawn from any area of business administration. Courses may be repeated for credit with changed topics.
- **BUS301: Principles of Marketing (4 hours)**  
The marketing process is analyzed as part of our socio-economic system that anticipates and satisfies consumer needs, adjusts to demand and sales, and procurement of goods and services. Topics include the marketing concept, new product development, channels of distribution, pricing, promotion and Internet marketing. (FA and SP) Pre-requisite: sophomore standing.
- **BUS302: Principles of Management (4 hours)**  
Examines the theory, techniques, and applications of management systems. Planning, organizing, leading, and controlling are issues addressed. Topics include environmental influences, organization design and structure, motivation, total quality management, ethics, production and international management. Emphasis is on learning through application. (FA and SP) Pre-requisite: sophomore standing.
- **BUS304: Principles of Finance (4 hours)**  
An analysis of the three functional and interrelated areas of finance: (1) financial institutions and markets, (2) corporate financial management, and (3) the investment management environment. The purpose of this course is to give all business students an expansive as well as applied understanding of the role of finance in business. Greater emphasis is placed on corporate financial management. (FA and SP) Pre-requisites: ECO124, ECO225, CMP114 and either ACC206 or ACC310.
- **BUS305: Principles of Operations Management (4 hours)**  
This course provides a survey of the operations function within a variety of enterprises and an understanding of how the design, operation and control of systems can most effectively provide

goods and services. Topics include operations strategy, process selection, quality management and control, supply chain management, forecasting, scheduling, inventory planning and control, and lean systems. (FA and SP) Pre-requisite: CMP114.

- [BUS320: Promotion Management \(4 hours\)](#)  
Development and control of the managerial structure for the elements involved in the marketing promotion function. Areas of concern are the relationship between the customer's needs and behavior, the corporation's approach to promotion, and the analysis of organizational structure alternatives in the marketing promotional area. An integrated marketing perspective is utilized. (SP only) Pre-requisite: BUS301.
- [BUS321: Careers in Finance \(2 hours\)](#)  
This course provides students with the tools necessary to succeed in their future careers. Students will learn and experience about their chosen career path and develop further their career action plans and resume. Networking, interviewing techniques, critical thinking and self-assessment skills are also addressed as students prepare for entering the job marketing upon graduation. (FA only) Pre-requisite: junior standing.
- [BUS327: Business to Business Marketing \(4 hours\)](#)  
Analysis of the problems of marketing industrial goods. Particular attention given to acquiring market information, marketing planning, methods of distribution, pricing, and the promotional challenges of industrial marketing. Personal selling techniques and sales management are also covered. (SP only) Pre-requisite: BUS301.
- [BUS341: Applied Risk Management \(4 hours\)](#)  
An introductory course covering the basics of business risk management. This course provides an overview of the nature, process, and methods of dealing with risk. Students study traditional insurance contracts, as well as all other forms of transference (non-insurance), as risk management tools in the business world. (SP only) Pre-requisite: BUS304.
- [BUS342: Investment Management \(4 hours\)](#)  
A study of financial instruments, the markets in which they trade, and their use in developing basic portfolios. A key emphasis of this course involves the valuation decision process of fundamental analysis and its application towards portfolio management. In addition, topics such as investing risks, efficient markets, and the use of fixed income securities in portfolio management are examined. (FA only) Pre-requisite: BUS304.
- [BUS344: Management of Financial Institutions \(4 hours\)](#)  
A study of the decision making process of depository financial intermediaries such as commercial banks, credit unions, insurance companies, and savings and loan associations. A primary emphasis is on commercial bank management. Topics covered in the course are related to asset and liability management, capital formation, bank regulation, interest rate risks, and other banking innovations and functions. (FA only) Pre-requisite: BUS304.
- [BUS356: Applied Financial Management \(4 hours\)](#)  
A case-study format that applies the principles and models of financial management to current business problems. All students are expected to be involved in detailed discussions of the case issues on a daily basis. In addition, ethical, moral, and social issues are addressed, where appropriate, with topics related to working capital management, capital budgeting, dividend, capital structure, financing decisions, and firm valuation. Computer technologies are used extensively to analyze issues related to case studies and the presentation of those results. (SP only) Pre-requisites: BUS304.
- [BUS360: Career Development \(4 hours\)](#)  
This course provides students with the tools necessary to succeed in their future careers. Students develop their business writing and communication skills as well as prepare a career action plan and resume. Networking, interviewing techniques, team work, critical thinking and self-assessment skills are also addressed as students prepare for entering the job market upon graduation. (FA only) (Course fee required) Pre-requisite: junior standing.
- [BUS435: Marketing Research \(4 hours\)](#)



Study of the research process as an aid to data analysis in marketing management. Emphasis on the planning of research and the gathering, quantitative analysis, and interpretation of information with emphasis on net based research and primary data collection. (FA only) Pre-requisites: CMP114 and BUS301 (CMP114 can be taken as co-requisite).

- [BUS479: Consulting Management \(4 hours\)](#)  
An integrative course intended to give students the opportunity to solve actual management problems in organizations. Class members form teams and establish a 'work world' symbiotic relationship with a local business firm while acting as consultants to the assigned client. Total quality management and a team approach are emphasized. (SP only) Pre-requisites: BUS302.
- [BUS480: Internship in Business \(1 TO 12 hours\)](#)  
The internship in business provides students an opportunity to apply theories and concepts learned in their courses to actual work experiences under the supervision of an external supervisor and faculty instructor. Restrictions: Student must be a declared major or minor in one of the programs offered by the Department of Business, Accounting, and Economics. Prerequisites: Approval of the faculty instructor. The student may earn a maximum of 12 credits in BUS 480. 40 hours of work are needed for each credit. (Grading is on an S/U basis.)
- [BUS483: Internship Option-Prior Work Experience \(1 TO 4 hours\)](#)  
Sufficient prior work experience in the area of finance may be substituted for the BUS 321 and BUS 480 requirement in the finance major. Restrictions: Student must be a declared finance major. Prerequisites: Approval of the department chair and the faculty instructor. (Grading is on an S/U basis).
- [BUS496: Business Policies \(4 hours\)](#)  
A study of the process of decision-making and the development of business policies and strategies through the use of a business simulation game in a team-building environment. (FA and SP) Pre-requisites: BUS301, BUS302, BUS304, and BUS305.
- [BUS498: Independent Study in Business \(1 TO 4 hours\)](#)  
A course of study designed to widen the student's knowledge of business, organizational, and system theory. This develops the ability to study independently and demonstrate aptitude in the planning and production of original work. (FA, SP, SU) Prerequisites: Junior/Senior standing respectively, approval of the divisional dean and consent of instructor.
- [LEA190: Leadership and Personal Effectiveness \(4 hours\)](#)  
Personal leadership represents a passionate desire to take charge of your life and is characterized by the strong values that become your moral compass, providing direction to your actions and behaviors. In this class, you will develop strategies to increase your individual effectiveness as you discover your unique purpose and initiate a personal vision to guide your life, and learn principle-centered approaches for solving problems, how to be a more effective communicator and listener, time management skills, how to set and achieve challenging goals and principles that help you adapt to change. (FA only)
- [LEA302: Leadership Theory and Practice \(4 hours\)](#)  
This course facilitates development of the student's capacity to become an effective leader in a business, public/government organization, or nonprofit agency. Through an examination of various approaches to leadership, students identify key principles, competencies, and qualities characteristic of effective leaders and integrate these concepts into a personal leadership style. (FA only)
- [LEA499: Leading Change \(4 hours\)](#)  
This course integrates prior academic experiences and provides students with an experimental, comprehensive approach to leadership. The processes of developing a vision, strategic thinking and planning, communicating the vision, empowering employees, and appreciating differences are applied and utilized within an actual organizational setting as a means of integrating academic knowledge with leadership skills. (Spring only) Pre-requisite: LEA302.



## Chemistry

- [CHE101: General Chemistry \(4 hours\)](#)  
General Education N1. A health science oriented survey course that introduces the basic concepts of inorganic and organic chemistry. Specific topics include: atomic theory, nuclear chemistry, compounds, chemical reactions, energy and organic functional groups. Four hours of lecture/discussion and one two-hour laboratory. (Required course fee) (FA, SP) Prerequisite: Demonstrated proficiency in high school chemistry and algebra.
- [CHE101L: General Chemistry Laboratory](#)  
Laboratory component for CHE101.
- [CHE102: Biological Chemistry \(4 hours\)](#)  
A survey of organic chemistry and biochemistry that considers the structure and function of biomolecules (carbohydrates, lipids, proteins and nucleic acids) and their metabolism. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (SP, SU) Prerequisite: CHE 101/101L with a grade of C or better.
- [CHE102L: Biological Chemistry Laboratory](#)  
Laboratory component for CHE102.
- [CHE104: Forensic Science \(4 hours\)](#)  
General Education N1. A course that focuses on the application of scientific principles to the analysis of forensic data. The analysis and interpretation of physical, chemical, and biological tests is discussed utilizing a firm grounding in basic science. The laboratory utilizes simulated crime data and includes both basic and instrumental analyses. Four hours of lecture/ discussion and one three-hour laboratory. (Required course fee) (SP)
- [CHE104L: Forensic Science Laboratory](#)  
Laboratory component for CHE104.
- [CHE106: Drug Discovery \(4 hours\)](#)  
General Education N1. A general survey of drug design and development of pharmaceuticals. This course examines the methods used in drug discovery. Topics include: the role of the FDA, clinical trials, drug action, and the pharmaceutical industry. Various sources of new drugs will be explored and several case studies will be discussed. Laboratory work will introduce students to methods and instrumentation used to develop new drugs. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA)
- [CHE106L: Drug Discovery Laboratory](#)  
Laboratory component for CHE106.
- [CHE109: Principles of Chemistry I \(4 hours\)](#)  
General Education N1. An introduction to the basic concepts of modern inorganic chemistry. The topics in this course include units and measurements, stoichiometry, behavior of gases, liquids, and solids, atomic structure, the periodic table, chemical bonding and thermodynamics. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA, SU)
- [CHE109L: Principles of Chemistry I Laboratory](#)  
Laboratory component for CHE109.
- [CHE110: Principles of Chemistry II \(4 hours\)](#)  
A continuing discussion of modern chemistry with a focus on quantitative analysis of chemical problems. Topics include kinetics, equilibrium, acid-base theory, and oxidation-reduction reactions. Modern instrumentation is utilized in the laboratory. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (SP, SU) Prerequisite: CHE 109/109L.
- [CHE110L: Principles of Chemistry II - Laboratory](#)  
Laboratory component for CHE110.
- [CHE201: Analytical Chemistry \(4 hours\)](#)  
This course introduces students to the theory and practice of chemical analysis. The principles of titrimetric, spectroscopic, chromatographic and electrochemical methods are examined in terms of

chemical equilibrium theory. Topics discussed include ionic equilibrium, gravimetric analysis, solubility/precipitation, acid-base titrations, complexation, potentiometry, UV-visible and atomic absorption spectrophotometry, and gas and liquid chromatography. Laboratory experiments are designed to illustrate the chemical principles discussed in class and to provide hands-on experience with modern analytical methods and instrumentation. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA) Prerequisite: CHE 110/110L.

- [CHE201L: Analytical Chemistry Laboratory](#)  
Laboratory component for CHE201.
- [CHE203: Organic Chemistry I \(4 hours\)](#)  
An introduction to the study of carbon and its compounds. Emphasis is placed on the simpler aliphatic and aromatic compounds, and functional groups. The course examines the underlying chemical principles and the mechanistic nature of organic reactions. Associated laboratory work is devoted to chemical and physical properties, as well as synthetic techniques. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA, SU) Prerequisite: CHE 110/110L.
- [CHE203L: Organic Chemistry I Laboratory](#)  
Laboratory component for CHE203.
- [CHE204: Organic Chemistry II \(4 hours\)](#)  
A continuation of Chemistry 203. Major emphasis is placed upon carbonyl chemistry. The use of spectroscopic techniques is explored. The latter part of the course is devoted to the study of carbonyl compounds and modern synthetic strategies. Laboratory work consists of synthetic techniques, chromatography, and structural analysis. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (SP, SU) Prerequisite: CHE 203/203L.
- [CHE204L: Organic Chemistry II Laboratory](#)  
Laboratory component for CHE204.
- [CHE302: Advanced Inorganic Chemistry \(4 hours\)](#)  
This course emphasizes structure, bonding, reactivity, and periodicity of inorganic compounds. The laboratory includes the preparation of metal and non-metal compounds and their characterization by chemical and physical methods. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (SP, odd years) Prerequisite: CHE 204/204L, and 303/303L or 304/304L.
- [CHE302L: Advanced Inorganic Chemistry Laboratory](#)  
Laboratory component for CHE302.
- [CHE303: Quantum Mechanics and Spectroscopy \(4 hours\)](#)  
Thorough introduction to the principles of physical chemistry providing the theoretical basis of quantum chemistry and atomic and molecular spectroscopy. Laboratory experiments incorporate modern instrumental design and data analysis. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (SP) Prerequisite: MAT 160, PHY 204/204L and CHE 110/110L.
- [CHE303L: Quantum Mechanics and Spectroscopy Laboratory](#)  
Laboratory component for CHE303.
- [CHE304: Thermodynamics and Kinetics \(4 hours\)](#)  
Study of reaction kinetics and the thermodynamic treatment of equilibrium in chemical systems. Topics include kinetic theory of gases, classical and statistical thermodynamics, phase equilibria, reaction rates and mechanisms. The laboratory relies on original student experimental design and data analysis of physical measurements that yield quantitative results of chemical interest. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA, even years) Prerequisite: MAT 161, PHY 204/204L and CHE 110/110L.
- [CHE304L: Thermodynamics and Kinetics Laboratory](#)  
Laboratory component for CHE304.

- [CHE306: Synthesis and Structure \(4 hours\)](#)  
The course will consider advanced topics in organic chemistry including selected topics from advanced spectroscopy, reaction mechanisms, synthetic methodology and photochemistry. Emphasis will be on reading, understanding, and orally presenting articles from the original literature. Four hours of lecture/discussion. (FA, odd years) Prerequisite: CHE 204/204L.
- [CHE308: Biochemistry I \(4 hours\)](#)  
The course investigates the properties of buffers and the related chemistry of amino acids, the structure and function of proteins including an intensive look at hemoglobin, and the structure of lipids and carbohydrates. The course also focuses on the kinetics, thermodynamics, and mechanisms of enzymatic reactions, the structure of nucleic acids, and the regulation of nucleotide biosynthesis. The laboratory serves to strengthen the understanding of these topics and includes the purification and/or characterization of several classes of biomolecules. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA, SP) Prerequisite: CHE 203/203L.
- [CHE308L: Biochemistry I Laboratory](#)  
Laboratory component for CHE308.
- [CHE309: Biochemistry II \(4 hours\)](#)  
The course focuses on the investigation of basic topics in metabolism, including bioenergetics, carbohydrate metabolism, and lipid metabolism. Additional topics include the biosynthesis of amino acids, nucleotides, and heme. Four hours of lecture/discussion. (SP) Prerequisites: CHE 204/204L and 308/308L.
- [CHE310: Advanced Forensic Science \(4 hours\)](#)  
An advanced course in forensic science designed for, but not limited to, those hoping to pursue careers in criminalistics. Some of the topics will have been addressed in the survey class CHE104 but will now be discussed in greater detail. There will be an emphasis placed on the use of primary literature. Prerequisites: CHE 104/104L and CHE 204/204L.
- [CHE390: Projects in Chemistry \(1 TO 4 hours\)](#)  
Students work on a research project under the direction of a faculty member. It is highly advisable for every student to participate in research projects during their educational experience. Course credit is assigned on the basis of one credit per 40 hours of laboratory work. (Required course fee) (FA, SP) Prerequisite: Approval of the department chair and the consent of the instructor.
- [CHE391: Special Topics in Chemistry \(1 TO 4 hours\)](#)  
This course is a study of a selected chemical topic not covered in other courses. Lecture and discussion. The topic will be announced prior to registration.
- [CHE391L: Special Topics Laboratory](#)  
Laboratory component for CHE391.
- [CHE401: Advanced Chemical Analysis and Instrumentation \(4 hours\)](#)  
This course will complete the student's introduction to modern chemical analysis and instrumentation. The theory and applications of chromatography and separation science will be emphasized, to include gas and liquid chromatographic instrumentation. The laboratory focuses on configuring, operating, and maintaining instruments while conducting quantitative and qualitative analyses. The course will also serve to initiate student research projects that are completed and presented in CHE 402. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (SP) Prerequisites: CHE 201/201L.
- [CHE401L: Advanced Chemical Analysis and Instrumentation Laboratory](#)  
Laboratory component CHE401.
- [CHE402: Capstone - Modern Chemistry \(4 hours\)](#)  
This capstone course will involve the implementation and completion of a research project proposed and approved in CHE 401. The research project will involve the development of an experimental plan, the use of integrative laboratory analysis using a wide range of equipment and instrumentation, the collection, analysis, and interpretation of data, and the presentation of

results in written and oral formats. The course will also formally review current trends in chemical research and the future of the chemical enterprise. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA) Prerequisite: CHE 401/401L or consent of instructor.

- CHE402L: Capstone - Modern Chemistry Laboratory  
Laboratory component for CHE402.

- CHE480: Internship in Chemistry (1 TO 4 hours)  
A cooperative arrangement with industries or governmental organizations that provides students with 'real world' experiences in chemistry. The student must spend time at the company working on a specific project. The student must also be involved in answering some educational questions regarding industrial chemistry. This experience is strongly recommended for students who will be seeking an industrial position after graduation. Plans should be discussed with the instructor during the junior year. (FA, SP, SU) Prerequisite: Senior standing and consent of the instructor.

## Communication

- [COM101: Principles of Communication \(4 hours\)](#)  
General Education S1. Introduction to human communication process. Application of principles in relational, public and mass media contexts. (FA, SP)
- [COM111: Debate and Forensic Activities \(1 hours\)](#)  
(FA) Prerequisite: Consent of instructor.
- [COM145: Introduction to Mass Communication \(4 hours\)](#)  
An introduction to how mass media functions in society and industry through mediums such as the Internet, television, and print media. Major sections include journalism, public relations, advertising and creative industries such as radio and television. (FA)
- [COM150: Research Methodology \(4 hours\)](#)  
Study of the principles of experimental, survey, textual and naturalistic methodologies. (SP)
- [COM200: Interpersonal Communication \(4 hours\)](#)  
Study of dyadic relationships. Topics include intimacy, uncertainty, disclosure, identity, competence, transactional paradigms and goals. (FA)
- [COM201: Presentational Speaking \(4 hours\)](#)  
This course prepares students to speak in a variety of rhetorical situations: as college students, employees, and opinion leaders in the community. Emphasis is on researching, preparing, organizing, and presenting a variety of speeches for varied audiences. This course offers opportunities across various modes of speech (impromptu, extemporaneous, manuscript, and memorized) and rhetorical objectives (informative, persuasive, inspirational/motivational). The interplay between audience analysis, speaker goals, delivery and a development of personal style with regard to all aspects of presentation skills will be stressed. (SP)
- [COM202: Small Group Communication \(4 hours\)](#)  
Study of small group process, models and theories. Participation in casual, cathartic, therapeutic, learning and decision-making groups. (FA, even years)
- [COM203: Advertising \(4 hours\)](#)  
Examines the components of an advertising campaign. Includes units on persuasion, market research, target analysis, creative strategy and media planning. (FA)
- [COM207: Intercultural Communication \(4 hours\)](#)  
General Education S1 and CCD. Identifies parameters which affect communication across cultures. English 170 is recommended prior to enrollment. (FA, SP)
- [COM208: Introduction to Public Relations \(4 hours\)](#)  
Examines theory, scope, techniques, and influence of public relations in society. Includes units on public opinion, message preparation, media selection, and ethics. (SP)
- [COM227: Technical Writing in Organizations \(4 hours\)](#)  
Provides understanding of principles related to audience adaptation, format, style, research, and writing in various organizational settings. (FA)
- [COM230: Organizational Communication \(4 hours\)](#)  
Examines theoretical history, structures, functions, systems, analysis and management of communication processes in complex organizations. (FA, odd years)
- [COM237: Advanced Newswriting and Reporting \(4 hours\)](#)  
Expands on existing skills, enabling students to research and write more specialized news stories for print and online media. The class will emphasize computer-assisted reporting, interviewing techniques, development of story ideas and self-editing. (SP)
- [COM241: Communication and Conflict \(4 hours\)](#)  
Study of interpersonal conflict processes. Emphasis on application of theory; analysis of ongoing conflict and management. (SP)
- [COM255: Digital Journalism \(4 hours\)](#)

An introduction to visual communication, digital film & photography, and online media. The course provides a historical background, core skills in visual technologies, and practical digital applications. (FA odd years)

- [COM275: Feature Writing \(4 hours\)](#)  
Planning and writing feature stories for newspapers and magazines. (FA, even years).
- [COM278: Broadcast News Reporting \(4 hours\)](#)  
Principles and techniques of broadcast news reporting, writing and editing. (SP, odd years).
- [COM290: Intro to Health Communication \(4 hours\)](#)  
General Education S1. Explore concepts and theories of communication and health. Examine interpersonal issues including clinician-patient, family, and social support as well as topics of mass communication including health communication campaigns and how the news/entertainment media present and affect health information. (SP)
- [COM290H: Intro to Health Communication \(4 hours\)](#)  
Explore concepts and theories of communication and health. Examine interpersonal issues including clinician-patient, family, and social support as well as topics of mass communication including health communication campaigns and how the news/entertainment media present and affect health information. Acceptance to the Honors Program required. (SP, odd years)
- [COM291: Topics in Communication \(1 TO 4 hours\)](#)  
Intensive investigation of special subject matter not covered in regular course offerings. Students may take more than one of these topics courses. Prerequisite (for 300-level): Junior standing or consent of instructor.
- [COM296: Research in Communication \(1 TO 4 hours\)](#)  
Supervised research of significant problem area within communication field. Prerequisites: Senior standing, approval of the divisional dean and consent of instructor.
- [COM298: Indep Study in Communication \(1 TO 4 hours\)](#)  
Prerequisite: Junior or senior standing, approval of the divisional dean and consent of instructor.
- [COM317: Communication Criticism \(4 hours\)](#)  
This course introduces students to the theory and practice of communication criticism. Students will apply a variety of methods to the analysis of rhetorical artifacts and develop proficiency in argumentative writing. (SP) Prerequisite: Junior standing or consent of instructor.
- [COM319: Communication Theory \(4 hours\)](#)  
General Education S2. Exploration of human communication theories including interpersonal, intercultural, group, persuasive, and mediated communication. Develops a working knowledge of communication theories and considers relationships between various theoretical positions. (FA) Prerequisite: Junior standing or consent of instructor.
- [COM350: Communication Law \(4 hours\)](#)  
Examines First Amendment communication freedoms. Considers dissent, association, academic freedom, obscenity, defamation, privacy, copyright, news gathering, electronic media regulation and other topics. Uses moot-court format. (SP) Prerequisite: Junior standing or consent of instructor.
- [COM370: Communication Technology and Society \(4 hours\)](#)  
Considers personal, ethical, legal, social and other impacts of communicating in an information-technical based society. (FA) Prerequisite: Junior standing or consent of instructor.
- [COM380: Internship in Communication \(1 TO 4 hours\)](#)  
Student intern experience. Prerequisite: Junior or senior standing; communication major and approval of adviser required prior to registration. S/U graded.
- [COM383: Prior Work Experience in Comm \(1 TO 4 hours\)](#)  
Professional work experience can substitute for required internship. S/U graded.
- [COM391: Topics in Communication \(4 hours\)](#)

Intensive investigation of special subject matter not covered in regular course offerings. Students may take more than one of these topics courses. Prerequisite (for 300-level): Junior standing or consent of instructor.

- COM396: Research in Communication (1 TO 4 hours)  
Supervised research of significant problem area within communication field. Prerequisites: Senior standing, approval of the divisional dean and consent of instructor.
- COM398: Indep Study in Communication (1 TO 4 hours)  
Prerequisite: Junior or senior standing, approval of the divisional dean and consent of instructor.
- COM480: Internship in Communication (1 TO 4 hours)  
Student intern experience. Prerequisite: Junior or senior standing; communication major and approval of adviser required prior to registration. S/U graded.
- COM483: Prior Work Experience in Comm (1 TO 4 hours)  
Professional work experience can substitute for required internship. S/U graded.
- COM499: Senior Capstone Seminar (4 hours)  
Participation in advanced research and work-oriented experiences. (FA) Prerequisite: Senior standing and a grade of C or better in COM 150 or consent of instructor. Professional printing of capstone poster required.

## Computational Science

- [CMP112: Computational Thinking I \(4 hours\)](#)  
Introduces students to elementary statistical methods and intermediate-level uses of Excel spreadsheets with a focus on data analysis, organization, visualization, and interpretation. Students will be exposed to some essential elements of computational thinking. They will solve problems with the statistical and software tools they've learned by developing simple algorithms and using elementary mathematical models. The topics may include, but are not limited to descriptive statistics, 1 and 2-parameter tests (e.g. 2 independent sample t-tests) as well as correlation and regression. Probabilistic models will be used to simulate stochastic processes and develop concepts in algorithmic thinking and mathematical modeling. (FA, SP, SU) Prerequisite: MAT 101.
- [CMP112H: Honors Computational Thinking I \(4 hours\)](#)  
Introduces students to elementary statistical methods and intermediate-level uses of Excel spreadsheets with a focus on data analysis, organization, visualization, and interpretation. Students will more deeply explore the conceptual underpinnings of computational thinking: algorithmic thinking, mathematical modeling and data analysis. They will solve problems with the statistical and software tools they've learned by developing algorithms, applying programming methods, and using elementary mathematical models. The topics may include, but are not limited to descriptive statistics, 1 and 2-parameter tests (e.g. 2 independent sample t-tests) as well as correlation and regression. Probabilistic models will be used to simulate stochastic processes and develop concepts in algorithmic thinking and mathematical modeling. (FA) Acceptance to the Honors Program required. Prerequisite: MAT 101.
- [CMP113: Computational Thinking II \(4 hours\)](#)  
This course introduces students to the discipline of Computer Science by maintaining a balance between computing breadth and computational thinking depth. First, it serves to expose the students to the field of computing via topics such as the Internet and Web, computer networks, computer architecture, data bases, algorithms, and the history of computing. Second, it provides some depth in two areas that play important roles in fostering computational thinking - database design and programming. Third, students will gain hands-on experience in using Microsoft Access database application software, JavaScript, Scratch visual programming environment, and Microsoft Expression Web development environment. (FA, SP, SU) Prerequisite: CMP 112.
- [CMP114: Computational Thinking II - Statistical Analysis Emphasis \(4 hours\)](#)  
This course will continue developing computational skills, but with heavy focus on statistics. Statistical analyses to be covered will include: 1-way and 2-way ANOVA, multiple regression, and chi-square tests. Some experimental design issues will be discussed. As in course I, analyses will be done using a spreadsheet and/or statistical software, but will also include some scripting. Sections of the course may be taught for specific majors, e.g., we will offer sections of CMP 114 with a business emphasis, using an appropriate text. (FA, SP, SU, WN) Prerequisite: CMP 112.
- [CMP114H: Honors Computational Thinking II- Statistical Analysis Emphasis \(4 hours\)](#)  
In CMP114H, students will more deeply explore the mathematical and conceptual underpinnings of statistical techniques like the regression, ANOVA, and non-parametric methods. For example, students will perform a deconstruction of the F-ratio used in ANOVA, which yields a deeper understanding of how factor-effects are measured in ANOVA. As a signature assignment, students will design, conduct, analyze, and present an experiment by employing statistical and computational methods (e.g., programming) learned through the semester. This project would be substantially more sophisticated and rigorous than would be found in the non-honors version of the course. (SP) Acceptance to the Honors Program required. Prerequisite: CMP 112H.
- [CMP330: Computational Techniques for Life and Behavioral Sciences \(4 hours\)](#)  
By way of a variety of examples from Life and Behavioral Sciences, students will develop data analysis, algorithmic design, and mathematical modeling skills. Possible examples are Neural Cluster Simulations, Macroeconomic Simulations, Population Dynamics, Bioinformatics, Disease Transmission Modeling, Simulating Gene Expression, and/or Bone Remodeling Models. Techniques used will include Neural Networks Models, Agent-Based Models, Differential Equations, Cellular Automata, Compartmental Models, and Stochastic Models. (SP, even) Prerequisites: CMP 113 or CMP 114, CSC 111 or CSC 112, and MAT 140 or MAT 160.



- CMP340: Computational Techniques for Physical Sciences (4 hours)  
By way of a variety of examples from the Physical Sciences, students will develop data analysis, algorithmic design, and mathematical modeling skills. Possible examples are Fluid Dynamics, ROTMOKE Magnetic Anisotropy, Mossbauer Spectroscopy, Molecular Modeling, Contaminate Models for Soil and/or Water, Stellar-structure models, or various Chaotic Systems. Techniques used will include Data Analyses, Differential Equations and Finite-Difference Simulations, Cellular Automata, Compartmental Models, and Stochastic Models. (SP, odd) Prerequisites: CMP 113 or CMP 114, CSC 111 or CSC 112, and MAT 140 or MAT 160.

## Computer Science

- [CSC109: Technological Productivity \(2 hours\)](#)  
This course uses Microsoft Windows and the Office suite of application software as a foundation for personal and organizational productivity. Students will be presented with an overview of computing specifics at Carroll University, and when/how to take advantage of the tools available in the Office applications (Word, Access, PowerPoint). Note that Microsoft Excel is currently the focus of the CSC 107 course. (FA, WN, SP, SU)
- [CSC110: Problem Solving through Programming \(4 hours\)](#)  
This course is designed as a first-semester foundation course for those students planning to major or minor in computer science and for others with an interest in the area. The course is about developing problem solving and structured programming skills, using the computer as a tool for solving problems. It covers the development of computer programs while focusing on the use of Dijkstra's structural programming principles with sequence, iteration, selection, and top-down structural program decomposition at its core. (FA, SP)
- [CSC111: Introduction to JAVA \(4 hours\)](#)  
This course studies the Java programming language, which is used to promote the student's understanding of object-oriented concepts (classes, methods, abstraction, inheritance, polymorphism, and encapsulation) in conjunction with algorithm design, style, debugging and testing. (SP) Prerequisite: CSC 110.
- [CSC112: Advanced Programming with C# \(4 hours\)](#)  
The course has essentially the same objectives as for CSC 111 but uses the programming language C#. The course is designed to be a continuation of CSC 110, in which more advanced programming concepts, constructs, and problem solving skills are addressed. Topics include, but are not limited to, object-orientation, inheritance, polymorphism, exception handling, event-driven programming, files and streams, and collections. Fundamentals of the .NET framework may also be covered.
- [CSC240: Computer Organization and Architecture \(4 hours\)](#)  
This course is an introduction to computer organization and architecture-the study of computer hardware at the abstract functional subunit (register, arithmetic and logic unit, data path and control) level and the arrangement and interconnection of those components to form a modern electronic computer's central processing unit (CPU). An essential part of this study also includes an examination of the design and implementation of low-level machine language instruction sets that are ultimately used to manipulate the hardware. An understanding of computer organization and architecture helps the Computer Science professional in making knowledgeable and reasoned decisions about specifying computer hardware and software when confronted by a choice between what can be a bewildering array of options. (SP)
- [CSC211: Database Web Creation and Networks \(4 hours\)](#)  
The primary objectives of this course are to develop database skills using Microsoft Access and Web development skills using HTML and Microsoft Web-authoring software Expression Web. E-commerce business problems will be solved using a web front end and database back end. A secondary objective is an introduction to networks concentrating on Ethernet and TCP/IP. Also covered is understanding the internals of personal computers to aid their purchase for home or organizational use. This course also continues the discussion on ethical use of technology. (FA, SP, SU)
- [CSC220: Information Systems \(4 hours\)](#)  
This course will provide the student with an understanding of the fundamental aspects of Information Systems. The student will be exposed to the various types of information systems found in business and accounting environments; encompassing operational, tactical and strategic systems. The student will also learn of the developmental processes involved in creating, implementing and securing an information system. This class was formerly the two-credit CSC 201 and will meet this requirement from previous catalogs. (FA, SP, SU)
- [CSC226: Data Structures using JAVA \(4 hours\)](#)  
This course focuses on the object-oriented paradigm, with particular reference to the design and implementation of data structures such as: stacks, queues, linked lists, and trees. Java collections

framework and searching algorithms are also introduced. The course builds on the concepts introduced in CSC 111 to allow students to use and write their own classes and objects. (FA) Prerequisite: CSC 111 or equivalent.

- [CSC303: Network Protocols \(4 hours\)](#)  
This course provides a unified view (both theoretical and applied) of the broad field of data communications and networking. Topics: data transmission, data encoding, data link control, multiplexing, circuit switching, packet switching, radio and satellite networks, local area networks (LANs), wide area networks, and protocols. Networking trends for the future will be covered. (FA) Prerequisite: CSC 211.
- [CSC307: Operating Systems and Web Master Fundamentals-Unix/Linux Apache \(4 hours\)](#)  
This class covers the elements and design of Win32 and UNIX/Linux operating systems, the fundamentals of system administration, and the installation, configuration and maintenance of the Microsoft IIS and Apache Web Servers. Problems such as concurrence, communication, and security will be addressed. (FA) Prerequisite: CSC 211.
- [CSC319: World Wide Web Programming \(4 hours\)](#)  
This hands-on course introduces the development of dynamic Web sites. It focuses on Web programming fundamentals and mastery of one of the current server-side technologies. (FA, even years) Prerequisite: CSC 211 or either CSC 111 or CSC 112.
- [CSC320: Programming Using C++ \(4 hours\)](#)  
This course assumes the student has had programming experience in some other language, and wishes to learn the C/C++ environment. It focuses on the object-oriented paradigm in the language C++, real-time programming, and provides an introduction to creating Windows Applications using Microsoft Visual Studio .NET. Prerequisite: CSC 110 or equivalent.
- [CSC323: Programming Languages \(4 hours\)](#)  
The objective of this course is to develop in students an understanding of the design and uses of different kinds of programming languages. Several programming languages will be examined including C, C++, Ada, and Lisp/Scheme. Issues considered include: the formal specification of programming language syntax, language design, translator design, and run time behavior of programs. Representatives of various kinds of languages such as assembly level, object-oriented, functional, logical, etc., are examined and students have the opportunity to solve problems in these languages. In addition, students may focus on a particular language of their choice to gain deeper understanding of its design issues. (SP, odd years) Prerequisite: CSC 226.
- [CSC341: Software Design and Development \(4 hours\)](#)  
This course presents a formal approach to state-of-the-art techniques in software design and development, and the means for students to apply the techniques. Formal models for capturing requirements for object-oriented and procedural designs are presented and used in the course. Other topics include Unified Modeling Language, Design Patterns, and various design principles and guidelines. (SP) Prerequisites: CSC 226.
- [CSC351: Database Design and Implementation \(4 hours\)](#)  
The emphasis in this course is on the design and construction of databases as tools in business. Concepts covered include entity-relationship modeling, normalization, and efficient table design. Programming with SQL is stressed using a professional Database Management System. The role of databases in Web applications is particularly considered. (FA) Prerequisites: CSC 111 or CSC 112 and CSC 211.
- [CSC352: Advanced Business Web Applications \(4 hours\)](#)  
Students learn how to build web-based business applications by using the technologies introduced in CSC 319 and the skills they have developed. Students develop Web-based applications linking Web sites to back-end databases while also learning how to build distributed, component-based web applications. Web services issues will also be discussed. Applications that scale are stressed in the context of performance, business goals, security, and other relevant topics. The current Web software development principles and methodologies are also stressed. (SP) Prerequisite: CSC 319 or CSC 353.

- [CSC353: Mobile Application Development \(4 hours\)](#)  
Mobile devices (primarily tablets and smart-phones) are used by millions for purposes requiring mobile applications. This includes using the devices to access remote information and a myriad of job-related and recreational uses. The number of apps currently available for distribution at the App-Stores for the most popular mobile platforms is in excess of one million, and growing rapidly. This course will cover developing applications using the current most popular mobile platforms, (e.g., as of 2013 this might include Google Android, Apple iOS, Window 8). This will allow for compare/contrast discussions. Differences between desktop computing and mobile computing will be covered. Development tools for mobile apps will be discussed. (FA, odd years) Prerequisite: CSC319 or equivalent.
- [CSC390: Workshop in Computer Science \(4 hours\)](#)  
Information Technology Prerequisite: Approval of the divisional dean and consent of instructor.
- [CSC391: Special Studies/Topics \(1 TO 4 hours\)](#)  
This course offers a study of a selected topic not covered in regular curriculum with lectures and/or discussions. The topic will be announced prior to registration. Prerequisite: Consent of instructor.
- [CSC392: Seminar \(4 hours\)](#)  
This is an advanced course of study involving individual research. Discussion of this research takes place through informal group participation. Prerequisite: Approval of the College Dean and consent of instructor.
- [CSC396: Research in Computer Science \(4 hours\)](#)  
Information Technology Advanced research is designed to permit individual students or groups of students to undertake special projects related to their educational interests and goals. Prerequisite: Approval of the divisional dean and consent of instructor.
- [CSC398: Independent Study \(1 TO 4 hours\)](#)  
Independent study is designed to offer a study of selected areas under the supervision of one or more faculty. Four credits maximum applied toward degree. Prerequisite: Approval of divisional dean and consent of instructor.
- [CSC409: Information Technology Mgmt. in an E-Commerce World \(4 hours\)](#)  
The emphasis of this class is on the management of information technology within an organization and the use of information technology from a strategic, tactical and operational perspective. The current trends towards e-business and e-commerce are integrated throughout. The class is concerned with the management issues surrounding information technology today. Topics include technology trends, IT planning and strategy, management of end-user computing, network management, asset protection, ethical considerations, in-house or outsourcing the hosting of a Web site, choosing a suitable host, Web site privacy issues/statements, and people management skills. (SP, odd years) Prerequisite: Junior standing.
- [CSC431: Artificial Intelligence \(4 hours\)](#)  
This course provides an introduction to the basic theoretical concepts of artificial intelligence, emphasizing the role of AI techniques for game programming. (SP, odd years) Prerequisite: CSC 111.
- [CSC436: Theory of Computation \(4 hours\)](#)  
This course is concerned with the theory of computers, i.e., the forming of several abstract mathematical models that describe computers and similar machines and their capabilities. Topics covered include: Finite Automata, Pushdown Automata, Turing machines, the Chomsky Hierarchy and P and NP problems. Prerequisite: CSC 226 and MAT 205.
- [CSC437: Computer Graphics \(4 hours\)](#)  
For those students who wish to understand how graphics are used and created. The computer graphics fundamentals, transformations of objects, shape modeling, 3-D viewing, rendering for realism, and curve and surface design are studied. Prerequisite: CSC 226.
- [CSC440: Software Engineering \(4 hours\)](#)

This course presents state-of-the art techniques in software design and development. Topics will include the software engineering lifecycle and current approaches to software development management, including formal methods, software metrics, agile methodologies and other innovative techniques. In addition the course will cover version control, software maintenance and quality assurance. A semester-long software development experience is provided. (FA)  
Prerequisite: CSC 341.

- [CSC450: Projects-Computer Science Majors \(4 hours\)](#)  
This course requires students to work on a real-world project, and is a very demanding course open only to majors in their senior year. The course allows students to select, design, code, document and formally present a substantial project of their own choosing. Students should coordinate with an instructor of their choice to provide guidance and receive consent prior to registration. (SP, SU) Prerequisites: Completion of ALL required CSC prefix coursework.
- [CSC451: Projects for Information Technology Majors \(4 hours\)](#)  
This course requires students to work on a real-world project of their own choosing, and is a very demanding course open only to majors in their senior year. The project allows students to use the knowledge gained in the coursework to produce a substantial product in the area of information technology by going through the entire development lifecycle. Students should coordinate with an instructor of their choice to provide guidance and receive consent prior to registration. (SP, SU) Prerequisites: Completion of ALL required IT coursework.
- [CSC455: Projects-Computer Science Minors \(4 hours\)](#)  
This course gives the student a real world experience in a computer-related project and is designed for minors only. (SP, SU) Prerequisites: Completion of ALL other minor requirements.
- [CSC480: Internship in Computer Science \(1 TO 12 hours\)](#)  
The course provides professional work experience in computer science or information technology under the supervision of faculty and industry personnel. Written report is required at the end of internship. S/U graded. (FA, SP, SU) Prerequisites: Junior or senior standing and consent of departmental chair required prior to registration. The course may be repeated for a maximum of 12 credits, but each repetition requires a substantially different work experience. 40 hours of work is needed for each credit.
- [CSC490: Workshop in Computer Science \(4 hours\)](#)  
Information Technology Prerequisite: Approval of the divisional dean and consent of instructor.
- [CSC491: Special Studies/Topics \(1 TO 4 hours\)](#)  
This course offers a study of a selected topic not covered in regular curriculum with lectures and/or discussions. The topic will be announced prior to registration. Prerequisite: Consent of instructor.
- [CSC492: Seminar \(4 hours\)](#)  
This is an advanced course of study involving individual research. Discussion of this research takes place through informal group participation. Prerequisite: Approval of the divisional dean and consent of instructor.
- [CSC496: Research in Computer Science \(4 hours\)](#)  
Information Technology Advanced research is designed to permit individual students or groups of students to undertake special projects related to their educational interests and goals. Prerequisite: Approval of the divisional dean and consent of instructor.
- [CSC498: Independent Study \(1 TO 4 hours\)](#)  
Independent study is designed to offer a study of selected areas under the supervision of one or more faculty. Four credits maximum applied toward degree. Prerequisite: Approval of divisional dean and consent of instructor.

#### Cross Cultural Experiences

- [CCS300: Cross Cultural Experience \(2 hours\)](#)
- [CCS400H: Global Perspectives Colloquium \(2 hours\)](#)

In the Global Perspectives Colloquium, advanced students (usually seniors) from multiple disciplines engage in critical reading and discussion. Students reflect on their distribution courses and cross-cultural experiences while also refining their writing skills. Acceptance to the Honors Program required. (FA, SP)

- Economics

- [ECO124: Principles of Economics I - Microeconomics \(4 hours\)](#)  
General Education S1. An intensive analysis of the microeconomics theory that explains the market's determination of prices, resource allocation, and distribution of goods and services. (FA and SP)
- [ECO225: Principles of Economics II - Macroeconomics \(4 hours\)](#)  
General Education S1. An intensive analysis of the macroeconomic theory that explains the aggregate behavior of our economy and its public and private policy implications. (FA and SP)
- [ECO306: Microeconomic Theory \(4 hours\)](#)  
General Education S2. An examination of modern price theory with specific emphasis on consumer demand, production and cost, the firm and market organization, and theory of distribution. (FA) Pre-requisite: ECO124.
- [ECO307: Macroeconomic Theory \(4 hours\)](#)  
General Education S2. A study of the analytical core and the central issues of the measurement and determination of the level of national income, fluctuations, and growth. Fiscal and monetary policy effects on unemployment and inflation are examined. (SP) Pre-requisite: ECO225.
- [ECO314: Econometrics \(4 hours\)](#)  
This course is an undergraduate course in econometrics focusing on the basics of econometrics essential to empirical research. The course will begin with the classical regression model, and then allow for violations of the classical model. The course will then focus on time series estimation methods including ARIMA modeling techniques. (FA) Pre-requisites: CMP114 and either ECO124 or ECO225.
- [ECO343: Money and Banking \(4 hours\)](#)  
The nature of money, the behavior of commercial banks, and the function of the Federal Reserve System are examined. The role of money in the economy is analyzed within the framework of the classical, Keynesian, and monetarist theories of the demand for money. (FA) Pre-requisite: ECO225.
- [ECO363: International Economics \(4 hours\)](#)  
A survey of the global economy, with emphasis on international trade theory, international finance, monetary markets, commercial policies, economic integration, and major international institutions. (SP) Pre-requisites: ECO124 and ECO225.
- [PPE499: Capstone in Philosophy, Politics, and Economics \(4 hours\)](#)  
The capstone course will have 4 components. 1) A major research paper: Each capstone student will propose and write a research paper on a topic approved by the capstone instructor. 2) Oral defense: each student will present and defend his or her research project to a panel of faculty in the major and other capstone students. 3) Comprehensive exam: each student will take an exam created by faculty in the major to test their mastery of the broad content of the major. 4) Transition plan: Students will be assisted in preparing a transition plan to career or graduate school as described in the capstone experience guidelines. Prerequisite: Senior standing as a PPE major. (Sp)

## Education

- [EDU102: Exploration in Education and Society \(4 hours\)](#)

The purpose of this course is to introduce the field of education as a significant cultural function in society. Through active engagement in class discussion, interaction with guest speakers, and participation in field explorations, the course examines a variety of elements in the social and cultural environments in which schooling occurs. Students will: (a) reflect on their own experiences as learners, (b) reflect on the environments in which formal and informal education occurs, (c) examine elements of and issues faced by professionals working in various traditional and non-traditional educational settings, (d) critically review the knowledge, skills and dispositions necessary for doing such work, (e) survey the historical and philosophical foundations of education, and (f) learn how education is grounded in sociocultural theories. (FA, SP, SU-occasionally)
- [EDU202: Intercultural Context in Education \(4 hours\)](#)

This course is designed to foster cultural awareness at the individual and systemic levels and to promote equity, anti-racist behaviors, and social justice in educational practices. Intercultural and multicultural education describe education policies and practices that recognize, accept, and affirm human differences and similarities related to gender, race, religion, linguistic diversity, disability, class and sexuality. To aid in this process, students will work to understand and question how differences and norms are conceptualized. A required twenty-hour field experience supplements the content and context of the course. Prerequisites: EDU 100/EDU 102 and completion or concurrent enrollment in EDU 203. Concurrent enrollment in EDU 261 and EDU 210 required (FA, SP)
- [EDU203: Educational Psychology \(4 hours\)](#)

This course examines how children, early adolescents, and adolescents develop and learn, with particular emphasis upon the classroom. Students will engage in the study of principles and theories of cognitive, social, emotional, moral and physical development, complex cognitive processes, memory, constructivism, motivation, and the creation of a positive learning environment. Prerequisite: Completion of or concurrent enrollment in EDU 100/EDU 102. (FA, SP)
- [EDU210: Field Experience in Educ I \(1 hours\)](#)

A pre-student teaching practicum in an assigned classroom in an area school. Grade level or subject is determined by the student's certification intentions. Throughout the semester, students complete a minimum of 40 student contact clock hours in the assigned classroom. This is achieved by attending a minimum of ten (10) full school days. Seminars accompany experiences in the school. Students must attend all seminars to receive course credit. A multicultural placement, determined by the Education Placement Coordinator is required in either EDU 210 or EDU 311/312. Students are responsible for their own transportation to urban (and other) placements not within walking distance of campus. S/U graded. (FA, SP) Prerequisites: EDU 102. Satisfactory results of a T.B. test and background and criminal history check are required.
- [EDU215: Intercultural Immersion Field Experience I \(2 hours\)](#)

The purpose of this course is to provide participating students with a cross cultural and/or international immersion experience. The course carries CCE credit in the Pioneer Core. Open to non-education students. All students are engaged through reflection, reading and seminar discussion. Seminars will be held prior to, on-site and post-experience. For education students, the Carroll University field experience program promotes reflective classroom practice commensurate with the Education Department's Guiding Principles and Wisconsin Model Standards. S/U graded. Prerequisites: EDU 100/EDU 102, completion or concurrent enrollment in EDU 203, or consent of instructor. Additional requirements are subject to specific placement. (Occasional offerings in FA, SP, WN, SU)
- [EDU246: Development, Observation and Assessment in Early Childhood \(4 hours\)](#)

This course is focused on the study of principles and theories of child development from birth to age eight in cognitive, affective, psychomotor, social, and language domains. Cross-cultural perspectives of development are considered. Students will gain strategies for observation and its uses both as a curriculum guide and as an assessment tool. The course offers an overview of other forms of assessment, including criterion-referenced and standardized tests. Students will learn about developmentally appropriate assessment tools.



- [EDU248: Early Childhood Education: Home, School, and Community Relationships \(4 hours\)](#)  
This course focuses on developing an understanding and acceptance of the diversity of contemporary families and the range of strengths that they can contribute to the education process. Students will develop skills in communicating with, working with, and educating parents, families, advisory groups, community resource agencies, pupil services, and support staff. Additionally, this course examines home and classroom behavior management strategies appropriate for young children. Prerequisite: EDU 203. (FA, SP)
- [EDU249: Development, Observation, and Assessment of Young Children with Exceptional Needs \(4 hours\)](#)  
This introductory course provides principles and theories of child development from birth to age eight in cognitive, affective, psychomotor, social and language domains. The course will provide the core theoretical and practical background knowledge necessary to assess and observe early childhood students and early childhood students with exceptional educational needs. Students will develop strategies for using observation as a curriculum guide and as an assessment tool. An overview of educational assessment and diagnosis of individuals with disabling conditions will be provided. Emphasis will be placed upon testing for IEP development and teaching. Cross-cultural perspectives of development are explored. Prerequisites: EDU 203, completion of or concurrent enrollment in EDU 261. (SP)
- [EDU250: Collaboration and Inclusion \(4 hours\)](#)  
This course is designed to expand and deepen students' knowledge, understanding and skills to increase the effectiveness of interactions with education professionals, community agencies, and families for the purpose of supporting students with disabilities. The readings, activities, projects, and class interactions will build capacities for participants to gain personal, professional, family and systemic perspectives to increase the quality of intra-and interpersonal skills. The class is structured to provide each learner the opportunity to initiate, analyze, activate and evaluate their learning within the context of the content. This course will assist students in developing their understanding of the Education Department's guiding principles specifically, Cultural Sensitivity and Reflection, and Wisconsin Model Standards for teaching (Standards 3, 9 and 10) Prerequisites: EDU 248, EDU 261. (FA, SU-occasionally).
- [EDU261: Educ of the Exceptional Child \(4 hours\)](#)  
Introduction to special education and teaching students with exceptional needs. This course provides an overview of legal issues, identification and assessment of students with special needs. Emphasis is placed on teaching strategies used to educate students who have diverse learning and behavioral needs. Prerequisite: EDU 203. Concurrent enrollment in EDU 202 and 210 required. (FA, SP)
- [EDU264: Collaboration for Academic, Social and Career Development \(4 hours\)](#)  
This course is designed to develop the knowledge, skills, and dispositions in future educators to effectively interact and collaborate with families, colleagues, and community agencies. Candidates will consider the perspectives of families of children with special needs and disabilities. Candidates will identify how to develop collaborative relationships with students and families. Students will gain a deeper understanding of agency systems, develop an awareness of the wide range of services provided by community agencies, and consider how families and schools can access these services. Students will understand contemporary legislation, issues, and trends pertaining to the career and vocational development of students with special needs. Prerequisite: EDU 261. (SP, SU-occasionally)
- [EDU270: Using Data and Assessment for Planning, Instruction, and Learning \(2 hours\)](#)  
This course will present students with the best current practices and principles of assessment across the curriculum of elementary schools. The characteristics and uses of both formal and informal assessment instruments and procedures will be studied with emphasis on formative assessment and principles and practices for effective standards-based instruction. Students will also learn how to design, administer, and interpret a variety of assessment measures. Prerequisites: EDU 102, EDU 202, EDU 203, EDU 210, EDU 261. (FA, SP, SU-occasionally)
- [EDU301: Democracy, Schools, and Society \(4 hours\)](#)

The study of social, political, philosophical, and historical issues and antecedents of K- 12 schooling and curriculum. Consideration of traditional, alternative, and innovative approaches to curriculum. Study of social concerns affecting the schools; the organization, administration, and financing of schools; alternative schooling; the world of work and the future of education. Prerequisite: EDU 202, 203. Concurrent enrollment in EDU 311 and EDU 360 required. (FA, SP)

- **EDU303: Instructional Design for the Early Adolescent/Adolescent Learner (2 hours)**  
This course provides a practical overview of early adolescent/adolescent behavior, curriculum planning, instructional methodology, and assessment applicable to teaching and learning at the secondary level. As a class, we will work to understand and question how we conceptualize what it means to be a teacher and a learner. Candidates explore how teachers engage in practices that establish high expectations for all students and encourage, develop, and support learning by all students. Prerequisites: EDU 203 and admission to TEP. Concurrent enrollment in EDU 305 required. (FA)
- **EDU305: Foundations of Reading (3 hours)**  
This course explores the foundations of reading through the examination of literacy theories, research, and best practices. Students explore oral language development, phonemic awareness, phonics instruction, vocabulary and word study, and reading comprehension strategies. Students examine a variety of formal and informal literacy assessments and how they are used to inform instruction for individual learners. Prerequisites: EDU 203 and admission to TEP. Concurrent enrollment in EDU 303 required. (FA)
- **EDU306: Literacy in Middle/Secondary School Content Areas (3 hours)**  
This course examines literacy acquisition in discipline specific areas for learners in grades 6-12. Students explore literacy as it relates to both print and non-print mediums. Students examine a variety of strategies for content area literacy instruction and assessment to enhance student learning. A practicum tutoring a middle or high school aged learner is a requirement of this course. Prerequisites: EDU 203 and admission to the TEP. Concurrent enrollment in EDU 353 is required for EA-A candidates. (SP)
- **EDU311: Field Experience in Education II (1 hours)**  
A pre-student teaching practicum in an assigned classroom. Grade level or subject is determined by the student's certification intentions. Throughout the semester, students complete a minimum of 40 student contact clock hours in the assigned classroom. This is achieved by attending a minimum of ten (10) full school days. Campus seminars accompany experiences in the school. Students must attend all seminars to receive course credit. The 311 field experience is distinguished from the 210 experience by an added measure of student responsibility for active involvement in classrooms. Seminars will emphasize preparation for and discussion of the added involvement. A multicultural placement, determined by the Education Placement Coordinator, is required in either EDU 210 or EDU 311/312. Students are responsible for their own transportation to placements not within walking distance of campus. This experience must be completed at Carroll and not in a school district where the candidate is employed. S/U graded. Prerequisites: Successful completion of EDU 102, EDU 210 or EDU 215, completion of or concurrent enrollment in a methods course, satisfactory results of a T.B. test and admission to the TEP are required. (FA, SP)
- **EDU312: Field Experience-Adaptive Educ (1 hours)**  
A pre-student teaching practicum in a non-categorical special education setting. Students work between four and six hours per week for a semester total of 40 clock hours. Or this can be achieved by attending a minimum of ten (10) full school days, a consideration for candidates who work Full Time. Campus seminars accompany experiences in the school. The 312 field experience is distinguished from the 210 experience by an added measure of student responsibility for active involvement in classrooms. Seminars will emphasize preparation for and discussion of the added involvement. A multicultural placement, determined by the Education Placement Coordinator, is required in either EDU 210 or EDU 311/312. Students are responsible for their own transportation to placements not within walking distance of campus. This experience must be completed at Carroll and not in a school district where the candidate is employed. S/U graded. Prerequisites: EDU 102, EDU 203, EDU 210 or EDU 215, EDU 261, completion of or concurrent enrollment in a

methods course, satisfactory results of a T.B. test, a criminal history and background check, and admission to the TEP. (FA, SP)

- [EDU315: Intercultural Immersion Field Experience II \(2 hours\)](#)  
The purpose of this course is to provide participating students with a cross cultural and/or international immersion experience. The course carries CCE credit in the Pioneer Core. Students are engaged through reflection, reading and seminar discussion. Seminars will be held prior to, on-site and post-experience. The Carroll University field experience program promotes reflective classroom practice commensurate with the Education Department's Guiding Principles and Wisconsin Model Standards. S/U graded. Prerequisites: EDU 100/EDU 102, EDU 210 or EDU 215, completion or concurrent enrollment in a methods course, admission to the TEP, additional requirements are subject to specific placement. (Occasional offerings in FA, SP, WN, SU)
- [EDU321: Social Studies in the Elementary /Middle School \(2 hours\)](#)  
This course is an examination of the objectives and techniques of teaching social studies in the elementary/middle school. Instruction includes the study of curriculum materials, methods, assessment and evaluation. Curriculum integration is examined through science and social studies. Students are challenged to develop lessons and use instructional strategies that help prepare children for active citizenship in a democratic and multicultural society. This course also provides opportunities for practical application of the course content. Prerequisites: EDU 203 and admission to the TEP. Concurrent enrollment in EDU 324 and EDU 327 required. (FA, SP)
- [EDU323: Literacy I: Early Childhood - Middle Childhood \(4 hours\)](#)  
This course examines literacy in the social, intercultural and educational context. Emphasizes using children's literature to create the reading and language arts curriculum through a balanced literacy approach. Using the Common Core Standards as the framework, this comprehensive literacy program has students explore and incorporate effective instructional and assessment strategies to develop literacy in early childhood and middle childhood learners. A 10 hour tutoring practicum in an elementary school is required. Tutoring hours will be either before or after school hours. Prerequisites: EDU 202, EDU 203 and admission to TEP. Concurrent enrollment with EDU 326 required. (FA, SP)
- [EDU324: Literacy II: Middle Childhood - Early Adolescence \(4 hours\)](#)  
This course examines literacy in the social, intercultural and educational context. Throughout the course, a variety of children's and early adolescent literature is used to model a comprehensive literacy approach. Using the Common Core Standards as the framework, this comprehensive literacy program has students explore, incorporate, and implement effective instructional and assessment strategies to develop literacy in middle childhood and early adolescent learners. A semester-long practicum in an elementary school is required. Tutoring hours will be either before or after school hours. Prerequisites: EDU 323 and admission to TEP. (FA, SP)
- [EDU326: Mathematics in the Elementary/ Middle School \(4 hours\)](#)  
Students develop understanding of mathematics content and pedagogies to facilitate teaching and learning in K-8 classrooms. Emphasis is on problem solving and constructivism and their implications to mathematics instruction. Course includes analysis of the CCSSM Content and Practice standards and NCTM's Principles and Standards. Course includes fieldwork to support students' understanding of how children learn mathematics. Students implement appropriate and effective assessments. (Fa, Sp) Prerequisites: EDU 203, MAT 201, and admission to the TEP. Concurrent enrollment in EDU 323 required. (FA, SP)
- [EDU327: Science Methods in the Elementary/Middle School \(2 hours\)](#)  
This course is designed to develop competencies in selecting methods and resources for teaching elementary and middle level science. All strands of science will be explored including environmental education. An emphasis is placed on effective instructional strategies, assessment, and the relationship of science to social studies. Prerequisites: EDU 203 and admission to the TEP. Concurrent enrollment in EDU 321 and EDU 324 required. (FA, SP)
- [EDU330: Introduction to Diagnostic Assessment of Students with Exceptional Needs \(4 hours\)](#)  
This introductory course provides core theoretical and practical background necessary to evaluate students having exceptional educational needs. An overview of educational assessment and

diagnosis of individuals with disabling conditions will be provided. Emphasis will be placed upon testing for IEP development and teaching. Prerequisites: EDU 261. (FA)

- [EDU332: Instructional Strategies for an Inclusive Classroom \(4 hours\)](#)  
This course is designed to facilitate the education student's knowledge, skills and disposition to increase the effectiveness of teaching for the inclusion of children with special needs in the classroom. This will include content, strategies, and structuring the environment to make inclusion a viable experience for the special needs student. Classroom management will also be explored as it relates to the special needs of the students. Prerequisites: EDU 261. (FA, SP)
- [EDU334: Language Development and Disorders of the Exceptional Child \(4 hours\)](#)  
This course is designed to present background information about normal language development as a foundation for evaluating speech and language disorders in children. Emphasis will be placed on current techniques for the identification of language disorders in school-age children as well as methods for enhancing their language skills. (SP) Prerequisites: EDU 261 and admission to the TEP.
- [EDU341: Integrated Curriculum in Early Childhood I - Literacy and Social Emotional Development \(4 hours\)](#)  
This course focuses on facilitating the development of literacy and social emotional skills in young children based on their developmental and cultural characteristics. Students gain experiences in curriculum development, assessment and implementation in the areas of social studies, environmental education, literacy (reading, language arts, children's literature), and social emotional development. Prerequisites: EDU 249, and admission to the TEP. (FA)
- [EDU342: Integrated Curriculum in Early Childhood II: Physical and Mathematical Knowledge \(4 hours\)](#)  
This course focuses on facilitating the development of physical and mathematical knowledge in young children based on their developmental and cultural characteristics. Students gain experiences in curriculum development, assessment, and implementation in the areas of science, physical education, mathematics, and the creative arts. This course also examines children's interests and readiness as opportunities to employ emergent curriculum and incidental teaching. Prerequisites: EDU 341 and admission to the TEP. (FA)
- [EDU349: Curriculum Development in Special Education/Special Education Methods \(4 hours\)](#)  
This course builds the foundation for development of developmentally appropriate curriculum based upon child development, learning theory, and research for all children birth through age eight, including those with developmental delays and disabilities. Students study effective teaching strategies, learn how to adapt curriculum for individual differences, study the organization of curriculum and instruction for special education students with a focus on literacy, socio-emotional, and social studies areas. This course also explores child find strategies, informed referral networks, evaluation team responsibilities, individualized family service plans, individualized education program processes, and pertinent state and federal laws, regulations, and policies. (FA) Prerequisites: EDU261, EDU341 and Admission to TEP.
- [EDU353: Special Methods in Teaching Secondary School Subjects \(2 hours\)](#)  
Daytime clinical experiences in a secondary school required. Examination of models of learning and instruction in specific subject-matter areas, including 25 hours of work in an assigned school to directly apply methodology. Special emphasis on selection, use, and preparation of resources for the various areas. Attention given to assessment, technology, curriculum development and evaluation. Prerequisites: EDU 203, EDU 303, and admission to the TEP. Concurrent enrollment in EDU 306 required for EA-A candidates. (SP)
- [EDU355: Special Methods in Teaching Elementary and Secondary Subjects - Modern Languages \(3 hours\)](#)  
Daytime clinical experiences in a secondary school required. Examination of models of learning and instruction in specific subject-matter areas, including 25 hours of work in an assigned school to directly apply methodology. Special emphasis on selection, use, and preparation of resources for the various areas. Attention given to assessment, technology, curriculum development and evaluation. Required for all Modern Language majors. Prerequisites: EDU 203, EDU 304, EDU 306 or permission from Chair for concurrent enrollment, and admission to the TEP. (SP)

- [EDU360: Teaching and Learning with English Language Learners \(4 hours\)](#)  
This course is designed to help foster an understanding of the English Language Learner and the role of the educator as an effective advocate for students. As a class, we will identify the English Language Learner, consider aspects of language acquisition and linguistics, explore legal implications, and observe various program models. To aid in this process, we will outline effective strategies to instruct and engage the English Language Learner. Students will be encouraged to continue their advocacy for the English Language Learner as they progress through the teacher development process and their ongoing professional practice. Prerequisites: EDU 202 and EDU 261. Concurrent enrollment in EDU 301 and EDU 311 required. (FA, SP)
- [EDU372: Instructional Design and Methodology for Students with Mild to Moderate Learning Disabilities \(2 hours\)](#)  
This course is designed to provide a background in, as well as practical opportunities with, general methods and materials appropriate for working with students with disabilities at the elementary and middle level. Emphasis will be placed on the methods, materials, resources, requirements and responsibilities of teachers working with students who have mild to moderate academic disabilities including, but not limited to specific learning disabilities. Students will explore the development, implementation and monitoring of Individualized Education Plans (IEPs) related to instructional planning for students with disabilities within the general curriculum. The course also focuses on the role of the special educator in the school community. Prerequisites: EDU 261 and admission to TEP. Concurrent enrollment in EDU 373 required. (FA, SP-occasionally)
- [EDU373: Instructional Design and Methodology for Students with Emotional/Behavioral Disabilities \(2 hours\)](#)  
This methods course provides core theoretical and practical background necessary to evaluate, support and teach students with emotional and/or behavioral disabilities at the elementary and middle level. Emphasis will be placed on the methods, materials, resources, requirements and responsibilities of teachers working with students who have been identified with EBD. Candidates will explore the development, implementation and monitoring of Individualized Education Plans (IEPs) related to instructional planning for students with disabilities within the general curriculum and the role of the special educator in facilitating special education services with families and the school community. Prerequisites: EDU 261 and admission to TEP. Concurrent enrollment in EDU 372 required. (FA, SP-occasionally)
- [EDU391: Special Topics in Education \(1 TO 4 hours\)](#)  
Application of theories and concepts in practicum experience focused on a specific area of interest. Open to Educational Studies majors only. (FA, SP).
- [EDU398: Independent Study in Education \(1 TO 4 hours\)](#)  
Extensive study of an approved subject area, or problem in education, in which the student has a special interest or need. Approval of divisional dean and consent of instructor. (FA, SP, SU)
- [EDU400: Capstone in Elementary Educational Studies \(4 hours\)](#)  
A research seminar and practicum culmination of the academic and experiential work of the Educational Studies major. Students complete a project that explores the Education Program's Guiding Principles in connection with gateways to educational employment outside of PK-12 schools. Individual practicum placements are made to capitalize on student interests. Placements are approximately 8 weeks long. Open only to Educational Studies majors. Prerequisites: Senior Standing. (FA, SP)
- [EDU409: Secondary and K-12 Student Teaching \(6 hours\)](#)  
The student teaching experience is an intensive, comprehensive requirement that provides students with a culminating opportunity to apply theory, methods and skills learned throughout their teacher preparation in a school setting, working under the direction and guidance of a master classroom teacher. A university supervisor is responsible for observing and evaluating the student teacher throughout the classroom teaching assignments. Placement is limited to schools that are within 30 miles of Carroll. Placement within walking distance of Carroll cannot be guaranteed; therefore, students must have transportation. Student teaching is considered a full load; no other courses should be added. Because of state requirements several weeks will be added to the Carroll semester to coincide with school district semesters. Fall student teachers will begin in August and

teach into January. Spring student teachers will begin in January and teach into June.

Prerequisites: Successful completion of appropriate PRAXIS II Content Knowledge Exam(s), and/or ACTFL Language Test, and/or FoRT, admission to the student teaching program, education faculty approval, TB test, and criminal history and background check. (FA, SP).

○ EDU410: Secondary and K-12 Student Tchng (6 hours)

The student teaching experience is an intensive, comprehensive requirement that provides students with a culminating opportunity to apply theory, methods and skills learned throughout their teacher preparation in a school setting, working under the direction and guidance of a master classroom teacher. A university supervisor is responsible for observing and evaluating the student teacher throughout the classroom teaching assignments. Placement is limited to schools that are within 30 miles of Carroll. Placement within walking distance of Carroll cannot be guaranteed; therefore, students must have transportation. Student teaching is considered a full load; no other courses should be added. Because of state requirements several weeks will be added to the Carroll semester to coincide with school district semesters. Fall student teachers will begin in August and teach into January. Spring student teachers will begin in January and teach into June.

Prerequisites: Successful completion of appropriate PRAXIS II Content Knowledge Exam(s), and/or ACTFL Language Test, and/or FoRT, admission to the student teaching program, education faculty approval, TB test, and criminal history and background check. (FA, SP)

○ EDU419: Early Childhood/Elementary Student Teaching (6 hours)

The student teaching experience is an intensive, comprehensive requirement that provides students with a culminating opportunity to apply theory, methods and skills learned throughout their teacher preparation in a school setting, working under the direction and guidance of a master classroom teacher. A university supervisor is responsible for observing and evaluating the student teacher throughout the classroom teaching assignments. Placement is limited to schools that are within 30 miles of Carroll. Placement within walking distance of Carroll cannot be guaranteed; therefore, students must have transportation. Student teaching is considered a full load; no other courses should be added. Because of state requirements several weeks will be added to the Carroll semester to coincide with school district semesters. Fall student teachers will begin in August and teach into January. Spring student teachers will begin in January and teach into June.

Prerequisites: Successful completion of appropriate PRAXIS II Content Knowledge Exam(s), and/or ACTFL Language Test, and/or FoRT, admission to the student teaching program, education faculty approval, TB test, and criminal history and background check. (FA, SP)

○ EDU420: Early Childhood/Elementary Student Teaching (6 hours)

The student teaching experience is an intensive, comprehensive requirement that provides students with a culminating opportunity to apply theory, methods and skills learned throughout their teacher preparation in a school setting, working under the direction and guidance of a master classroom teacher. A university supervisor is responsible for observing and evaluating the student teacher throughout the classroom teaching assignments. Placement is limited to schools that are within 30 miles of Carroll. Placement within walking distance of Carroll cannot be guaranteed; therefore, students must have transportation. Student teaching is considered a full load; no other courses should be added. Because of state requirements several weeks will be added to the Carroll semester to coincide with school district semesters. Fall student teachers will begin in August and teach into January. Spring student teachers will begin in January and teach into June.

Prerequisites: Successful completion of appropriate PRAXIS II Content Knowledge Exam(s), and/or ACTFL Language Test, and/or FoRT, admission to the student teaching program, education faculty approval, TB test, and criminal history and background check. (FA, SP)

○ EDU422: Special Student Teaching Practicum (1 TO 5 hours)

A practicum for the licensed student who is extending teaching certification beyond his/her present license. University supervised student teaching at the level(s) and/or subject for which additional certification is desired. A portfolio and demonstrated proficiency in the Wisconsin Teacher Standards is also required. Additional Notes: Successful completion of appropriate PRAXIS II Content Knowledge Exam(s), and/or ACTFL Language Test, and/or Foundations of Reading Test required prior to endorsement for licensure. (FA, SP)

○ EDU423: Special Education Student Teaching (6 hours)



The student teaching experience is an intensive, comprehensive requirement that provides students with a culminating opportunity to apply theory, methods and skills learned throughout their teacher preparation in a school setting, working under the direction and guidance of a master classroom teacher. A university supervisor is responsible for observing and evaluating the student teacher throughout the classroom teaching assignments. Placement is limited to schools that are within 30 miles of Carroll. Placement within walking distance of Carroll cannot be guaranteed; therefore, students must have transportation. Student teaching is considered a full load; no other courses should be added. Because of state requirements several weeks will be added to the Carroll semester to coincide with school district semesters. Fall student teachers will begin in August and teach into January. Spring student teachers will begin in January and teach into June.

Prerequisites: Successful completion of appropriate PRAXIS II Content Knowledge Exam(s), and/or ACTFL Language Test, and/or FoRT, admission to the student teaching program, education faculty approval, TB test, and criminal history and background check. (FA, SP)

## Engineering

- [GEN100: Engineering Seminar I \(1 hours\)](#)  
New engineering students will be given opportunities to develop and improve problem solving, computer literacy and study skills to maximize their chances for success in their university careers and prepare them for subsequent engineering courses. Topics include: making the transition from high school to university; time management; exploration of the engineering disciplines, learning styles, introduction to computer skills including spreadsheets, word processing and presentation software; engineering ethics; introduction to engineering methods. (FA)
- [GEN101: Engineering Seminar II \(1 hours\)](#)  
New engineering students are given opportunities to explore the engineering programs through interdisciplinary projects. Emphasis will be placed on written and oral communication skills, data collection and analysis, computer application skills and group work. (Required course fee) (SP)  
Prerequisite: GEN 100.
- [GEN105: Engineering Graphics \(4 hours\)](#)  
Problems relative to points, lines and planes in space; Cartesian coordinates; projection-plane theory; orthographic pictorials; dimensioning; auxiliary views; sections; extensive use of computer-aided design (AutoCAD and solid modeling) including 2D and 3D drawing, editing and enhancing; emphasis on development of the ability to communicate graphically; special emphasis on engineering and computer graphics applications. (FA)
- [GEN210: Statics and Dynamics \(4 hours\)](#)  
Principles of statics and dynamics with applications in engineering. Topics include force/movement vectors, resultants, distributed loads, internal forces in beams, properties of areas, moments of inertia and the laws of friction, kinematics and kinetics of particles, rigid bodies in translation, rotation and general plane motion, Newton's laws, work-energy methods, linear and angular momentum. (FA, even years) Prerequisite: PHY 203, and MAT 207 or concurrent registration in MAT 207.
- [GEN310: Strengths of Materials \(4 hours\)](#)  
Simple stress and strain; design and investigation of joints, beams, torsion members and columns; evaluation of shear, moment, slope and deflection of beams and combined stresses. (SP, odd years) Prerequisite: GEN 210.
- [GEN320: Advanced Circuits and Electronics \(2 hours\)](#)  
Expanding on topics covered in PHY 204 and 301, analog circuits are treated in greater detail, including steady-state AC circuits, transfer functions, transient current dynamics, circuit analysis, phasors, follower circuits, and operational and transistor amplifiers. Additional analog topics include diodes, transistors (bipolar junction and field effect), elementary amplifier circuits, transistor limitations, comparators, and oscillators. Lectures and laboratories are expanded to include digital electronics, electronic devices and applications. Digital topics include digital circuits, digital logic, flip flops, counter, memory, A/D and D/A conversion. Additional topics may include arithmetic units and microprocessors. (SP, even years) Prerequisite: PHY 204.
- [GEN320L: Advanced Circuits and Electronics Laboratory](#)  
Laboratory component for GEN320.
- [GEN380: Engineering Internship \(4 hours\)](#)



## English

- [ENG120: Introduction to Professional Writing \(4 hours\)](#)  
This course examines the field of professional writing and explores writing conventions (format, style, research documentation) in various organizational contexts. Students in the course will both produce and analyze documents tailored to real-world situations. (SP)
- [ENG140: Introductory Language Skills for Liberal Arts \(4 hours\)](#)  
An intensive review of the basic skills required by a Liberal Arts education - reading, writing and critical thinking. May not be counted toward an English major or minor. (Enrollment by assignment only.) (FA, SU)
- [ENG162: Science Fiction and Gender \(4 hours\)](#)  
General Education H1 and CCD. In this course, students will interrogate science fiction's role in exploring cultural constructions of gender. In addition, this course will acquaint students with the questions and critical conversations that shape both the study of science fiction and the study of gender. ENG 170 is recommended prior to enrollment. (SP)
- [ENG164: American Indian Literature and Spirituality \(4 hours\)](#)  
General Education H1 and CCD. An introduction to the study of American Indian literature and cultures, representing select geographical locations, through literature, film, and primary sources.\* Students will examine the importance of storytelling in reflecting, maintaining, and shaping tribal cultures, identities, histories, and traditions. \*Course texts will represent a selection of geographically diverse American Indian cultures that will always include a Great Lakes Indian tribe to promote understanding of local cultural diversity. (SP)
- [ENG165: Writing the Body: Cultural Explorations of Race, Gender and Class \(4 hours\)](#)  
General Education H1 and CCD. This course explores how different cultures write meaning onto bodies, the mechanisms used to write those meanings, and the impact those meanings have on the bodies so inscribed. In general, this course looks at how culture uses the body as a site for enacting cultural practice and understanding. (FA)
- [ENG170: Writing Seminar \(4 hours\)](#)  
Required for all first year students. Through critical reading - and with special attention to language, audience, purpose and structures - students develop effective approaches to writing. May not be counted toward an English major or minor. (FA, SP, SU)
- [ENG170H: Writing Seminar \(4 hours\)](#)  
Required for all first year honors program students. Students develop effective approaches to writing to an advanced degree. May not be counted toward an English major or minor. (SP)
- [ENG199: Reading and Writing in the Sciences \(4 hours\)](#)  
General Education H1. In this class, students will be introduced to a wide range of genres crucial for work in the health and natural sciences, which may include lab reports, literature reviews, abstracts, interview or observational notes, detailed instructions, business letters, and grant proposals. Assignments will help students sharpen their writing skills and develop their professional identities. (SP)
- [ENG205: Interactive Fiction Writing: Stories and Games for Online Environments \(4 credits hours\)](#)  
Students will explore interactive and hypertext fiction, both historical and contemporary. Students will then create their own interactive stories and games to read/play with free, easy-to-use software and publish them online. Students will learn the basics of good writing, coding concepts, and web publishing. No prior coding/programming experience is necessary (FA, even).
- [ENG206: Fiction Writing \(4 hours\)](#)  
General Education F1. By studying master works of short fiction selected from contemporary authors and by participating in writing workshops, students will work to develop and refine their skills of writing fiction. (SP)
- [ENG207: Poetry Writing \(4 hours\)](#)  
General Education F1. In this workshop, students will learn the conventions of poetry writing by studying master works of poetry and writing their own poems. (FA)

- [ENG210: African American Literature \(4 hours\)](#)  
General Education H1 and CCD. Students will read and respond to a variety of African-American literature - novels, poems, plays, autobiographies, short stories, and commentaries. The goal is that students will be able to write thoughtfully about the ethics and aesthetics of these works, and will more fully appreciate and understand the relationship between literature, history, and cultural values. ENG 170 is recommended prior to enrollment. (FA, even years)
- [ENG211: Intro Literary Study I - Poetry \(4 hours\)](#)  
General Education H1. By examining numerous classic and contemporary examples, students will consider how poems are constructed to achieve their meanings. Numerous poetic elements and forms of analysis will be defined and discussed, and students will have the opportunity to analyze poetry in discussions and in writing. (FA)
- [ENG212: Intro to Literary Study II - Short Fiction & Drama \(4 hours\)](#)  
General Education H1. This course teaches students to originate questions about literature and to formulate strategies to answer those questions. In addition to reading a wide variety of authors, students will have practice with using various methods of literary analysis. (SP)
- [ENG214: Global Film Theory and Criticism \(4 hours\)](#)  
General Education H1 and CCD. This course will help develop a critical vocabulary for analyzing and writing about film in a global context. This course will supplement film viewings with reading, discussion, and writing activities to improve student's ability to craft arguments based in evidence. (SP odd)
- [ENG219: Introduction to Linguistics \(4 hours\)](#)  
Students develop their own view on language policy, both in the classroom and in public arenas. Beginning with language production, students will piece together the fascinating story of human language development. In papers, discussions, and presentations, students will investigate social, psychological, and historical implications of language study.
- [ENG230: Grant Writing \(4 hours\)](#)  
Students will learn about the process of obtaining grant funding for nonprofit organizations, then participate in that process. Students will first practice each stage of grant writing. They will then further develop their skills by writing complete grants in real-life scenarios. Prerequisites: none. (SP, even).
- [ENG240: British Literature I - Medieval to 1700 \(4 hours\)](#)  
Course content focuses on major movements, authors, and texts in English Literature, beginning with the works of early Anglo-Saxon writers and continuing through the 17th century. (FA)
- [ENG241: British Literature II - 1700 to Contemporary \(4 hours\)](#)  
Course content focuses on major movements, authors, and texts in English Literature, beginning with the works of the late 18th century and continuing through the present day. (SP)
- [ENG242: American Literature: One Nation, Many Voices \(4 hours\)](#)  
General Education H2 and CCD. This course looks at the ways America's original narrative, which was initially dominated by an exclusively Puritan perspective, has evolved, and continues to evolve, in response to historical events and an every changing cast of characters. (SP even years)
- [ENG255: Postcolonial Literature and Theory \(4 hours\)](#)  
General Education H1 and CCD. Literature of indigenous world cultures (non-Western-Eurocentric literature), to consider relationships between place and cultural identity, constructions of cultural difference, relationships between cultures, and operations of domination and resistance. The course also looks at the roles writers play in establishing or reestablishing cultural identity and addresses issues of ethics and morality in crossing cultures. (FA, SP) (255H: FA odd years)
- [ENG255H: Postcolonial Literature and Theory \(4 hours\)](#)  
General Education H1 and CCD. Literature of indigenous world cultures (non-Western-Eurocentric literature), to consider relationships between place and cultural identity, constructions of cultural difference, relationships between cultures, and operations of domination and resistance. The course also looks at the roles writers play in establishing or reestablishing cultural identity and

addresses issues of ethics and morality in crossing cultures. Acceptance to the Honors Program required. (FA, SP, SU) (255H: FA, odd years)

- [ENG260: Professional Writing in the Public Sphere \(4 credits hours\)](#)  
Students will examine "public writing" in a wide variety of forms (blogs, journalism, academic writing) as a way of interrogating what we mean by "good writing" and "public communication." Students will explore the idea of a "democratic public sphere" as it emerges historically and appears in the design and use of networked information infrastructures. Students will also examine the ethics of engagement and representation in open-access exchanges, and the conventions of writing deemed necessary for conversing with and about a "general public".
- [ENG288: Spectacle and Text: Visual Culture 1700 - 1920 \(4 hours\)](#)  
General Education H1. This course is designed to introduce you to the multiple texts that inundated the British and American visual landscape before the age of "talking films". As we proceed through the class, we will ask how these technologically and aesthetically innovative forms influenced Anglo-American subjectivity and identity. (FA odd)
- [ENG298: Independent Study in English \(1 TO 4 hours\)](#)  
Prerequisites: Junior standing, approval of the divisional dean and consent of the instructor.
- [ENG300: Great Authors \(4 hours\)](#)  
General Education H2 and CCD. Intensive study of a body of work by an author deemed 'great' by scholars and critics. This study will include relevant critical and biographical readings and discussion of what, ultimately, makes the author 'great.' ENG 170 is recommended prior to enrollment. (FA, odd years) Prerequisite: Junior standing or consent of the instructor.
- [ENG303: Milton and Moral Choice - His Age and Ours \(4 hours\)](#)  
General Education H2. Study of John Milton's poetry and prose, supplemented by other seventeenth century writers, concentrating on issues of the nature of Good and Evil, Moral Choice, Free Will, Guilt and Innocence, Gender, Desire, War, and Censorship. Discussion focuses on how these issues represent some of the most pressing anxieties of Milton's time and our own. (FA, even years) Prerequisite: Junior standing or consent of the instructor.
- [ENG304: Shakespeare: From Stage to Screen \(4 hours\)](#)  
General Education H2. Intensive study of representative histories, comedies, tragedies and late plays, with a focus on understanding their historical contexts as well as how the plays have been adapted in recent films. (SP, even years) Prerequisite: Junior standing or consent of the instructor.
- [ENG305: Advanced Exposition and the Rhetorical Tradition \(4 hours\)](#)  
General Education H2. Rhetorical Tradition Students will read and analyze rhetorical texts ranging from Classical authors like Aristotle, to Modern and Postmodern theorists like Burke and Foucault. Theories learned from these texts will be used to examine historically important American speeches. (FA, even years)
- [ENG309: Romantic and Victorian Literature \(4 hours\)](#)  
Students will read major writers of the nineteenth century in their historical context with emphasis on major poetry and prose, including the novel, in relation to literary and cultural history. (SP, odd years) Prerequisite: Junior standing or consent of the instructor.
- [ENG312: Modernism \(4 hours\)](#)  
General Education H2. Students read major works of the modern and postmodern periods in relation to prevailing cultural constructions of self, art, and the nature of reality. Students will also consider the causes and consequences of the widening gulf between highbrow literature and popular fiction. (FA, odd years) Prerequisite: Junior standing or consent of the instructor.
- [ENG323: Early Modern British Literature \(4 hours\)](#)  
Verse, prose and drama of the Early Modern Period, including works by Behn, Donne, Herbert, Jonson, Marlowe, Marvell, Milton, Spenser, Sidney and others. The course studies sixteenth and seventeenth century literary traditions as they reflect and construct culture, as well as the ways the Early Modern Period anticipates and resists issues such as power, gender, love and faith in our time. (SP, even years) Prerequisite: Junior standing or consent of the instructor.

- [ENG333: Advanced Creative Writing \(4 hours\)](#)  
General Education F2. Students will have the opportunity for advanced study in the genre of their choice: fiction or poetry. Students in this workshop will build upon the foundational skills they studied in ENG 206 or ENG 207. Readings will focus on understanding and analyzing the conventions of the student's chosen genre. Students will do extensive writing in their genres, and student work will be discussed and analyzed in a writing workshop format. (FA, odd years)  
Prerequisite: ENG 206 or ENG 207.
- [ENG350: Literary Magazine Publishing \(4 hours\)](#)  
In this practicum, students will edit, produce, write for, and market Carroll's professional literary magazine. Prerequisites: two 200-level or above Humanities or Social Science courses (ART, COM, EDU, ENG, EUS, FAR, FRE, GER, GRC, HIS, MUS, PPE, POL, REL, SOC, SPA, THE, WRI, or consent of the instructor. (SP)
- [ENG380: Internship in English \(2 TO 4 hours\)](#)  
Work experience under professional supervision with opportunities to observe and question. Written report required. Only four credits may be applied toward completion of the major. Recommended as 10th course in the major. Prerequisite: Consent of the instructor.
- [ENG398: Independent Study in English \(1 TO 4 hours\)](#)  
Prerequisites: Junior standing, approval of the divisional dean and consent of the instructor.
- [ENG480: Internship in English \(4 hours\)](#)  
Work experience under professional supervision with opportunities to observe and question. Written report required. Only four credits may be applied toward completion of the major. Recommended as 10th course in the major. Prerequisite: Consent of the instructor.
- [ENG497: Guided Senior Thesis \(2 hours\)](#)  
The thesis will be completed under the guidance of a selected faculty member. Students will create a unified thesis of revised and polished work that will be used for final assessment. Prerequisites: ENG 496 and consent of the instructor. (SP)
- [ENG499: English Major Capstone-Advanced Literature Seminar \(4 hours\)](#)  
In the capstone, students are expected to demonstrate mastery of the five English Program Learning outcomes. Course will be conducted as an advanced literature seminar and students will read primary as well as secondary materials in order to understand and insert themselves into a contemporary critical discussion. At the end of the seminar, students will submit a senior thesis project which demonstrates scholarly research, critical engagement and literary analysis. (FA)  
Prerequisite: Senior standing as an English major.

## Environmental Science

- [ENV105: Earth Science \(4 hours\)](#)  
General Education N1. Introduction to the basic concepts in earth science, including the description, analysis, and interpretation of the major components of the earth's natural environment. The first part of the course introduces geologic elements of the earth system including earth materials, internal processes, and external processes. The second part of the course focuses on the structure and processes of the atmosphere, along with resulting weather patterns. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA, SU of even years)
- [ENV105L: Earth Science Laboratory](#)  
Laboratory component for ENV105.
- [ENV120: Conservation and Environmental Improvement \(4 hours\)](#)  
General Education N1. A study of global natural resources and methods used in their conservation. The course includes the basic concepts of ecological biology including interactions between the living and the non-living elements of the environment, concepts of energy transformation in physical and biological systems, the nature of the Earth's ecosystems, and the implications of continued growth of the human population. Emphasis is placed on human environmental concerns and methods to be used to study and alleviate human environmental problems. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA, SP, SU of odd years)
- [ENV120L: Conservation and Environmental Improvement Laboratory](#)  
Laboratory component for ENV120.
- [ENV120H: Conservation and Environmental Improvement \(4 hours\)](#)  
General Education N1. For students in the honors program. A study of global natural resources and methods used in their conservation. The course includes the basic concepts of ecological biology including interactions between the living and the non-living elements of the environment, concepts of energy transformation in physical and biological systems, the nature of the Earth's ecosystems, and the implications of continued growth of the human population. Emphasis is placed on human environmental concerns and methods to be used to study and alleviate human environmental problems. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (SP of even years)
- [ENV120HL: Conservation and Environmental Improvement Laboratory](#)  
Laboratory component for ENV120H.
- [ENV150: Climate Science \(4 hours\)](#)  
General Education N1. Changing climate is at the root of many environmental, political, and social issues because climate fundamentally impacts both natural ecosystems and human society. This course is an introduction to the scientific basis of understanding climate and climate change. Through lecture and lab activities, students will learn the structure and governing principles of the climate system, the interactions of various components of the climate system, the techniques used by scientists to monitor and predict climate, and how human and natural systems influence and are influenced by climate. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (SP)
- [ENV150L: Climate Science Laboratory](#)  
Laboratory component for ENV150.
- [ENV201: Problem Solving in Environmental Systems \(4 hours\)](#)  
This course takes an inquiry-based approach to address current and future environmental issues (water, energy, biodiversity loss, climate change, and agriculture/aquaculture) through a project-based problem solving approach. Environmental issues will be explored through their scientific as well as sociological, economic, and political contexts. Students will be expected to examine environmental issues through compiling information from a variety of sources - textbook, internet, popular literature, and peer-reviewed publications. The course is a pre-requisite for some upper-level biology courses and will cover critical thinking skills required in upper-level Biology and Environmental Science courses. (SP of even years) Prerequisite: BIO 120 or consent of instructor.

- [ENV222: Environmental Sustainability \(4 hours\)](#)  
Environmental sustainability is a broad area of study that is generally focused on prudent use of the earth's resources in the production of goods and services that humans need and want in such a way as to ensure the well-being of future generations and the earth. This lecture and lab course will be designed to give students the conceptual knowledge and practical skills to assess the sustainability of environmental system in light of human resource consumption practices. Field trips to local organizations will be used to plan and create sustainability audits (required course fee) (SP) Prerequisite: ENV 105 or ENV 120.
- [ENV222L: Environmental Sustainability Laboratory](#)  
Laboratory component for ENV222.
- [ENV252: Contemporary Issues in Environmental Science \(2 hours\)](#)  
This course highlights various contemporary issues relating to the global environment with a focus on the distributional patterns of environmental problems such as natural resource depletion, food production, overpopulation, energy use, water pollution, and global climate change. This course may be used with a prior university biology laboratory course to satisfy the environmental science requirement for teachers. (WN, SU)
- [ENV277: Natural Resource Management \(4 hours\)](#)  
The course provides an introduction to the biological and social aspects of renewable and nonrenewable natural resource management. In addition to the management of fisheries and wildlife populations and their habitats, emphasis will be placed on forestry, vegetative communities, and non-renewable (fossil fuel) natural resources. Students will read and discuss the biological, physical, and social aspects of natural resource management. (SP of odd years)  
Prerequisite: BIO 120
- [ENV290: Workshop-Environmental Science \(2 TO 4 hours\)](#)  
Topical workshops, field studies, or short courses are established in various areas of interest as recognized/needed by the program. For example, under this listing, the program offers a 'Cultural and Environmental Geography of Alaska' field study during May term (odd years), which is also offered for NCEP credit.
- [ENV292: Environmental Ethics \(4 hours\)](#)  
General Education P1. This course addresses historic philosophical and religious perspectives concerning the natural environment, including contemporary ethical responses to such global concerns as resource stewardship and management, technological change and impact, ecological diversity and sustainability, environmental politics and economics, energy use, population growth, and over-consumption. An emphasis will be placed on global resource challenges and social issues related to resource utilization. (SP)
- [ENV325: Soils and Hydrology \(4 hours\)](#)  
This course addresses various technical aspects of global soil and water resources, how we utilize and impact the quality and quantity of these vital resources, and how we manage and conserve them for future generations. Topics include soil classification, soil physics, soil chemistry, soil fertility, water chemistry, hydrology, and sediment and contaminant transport. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA of even years)  
Prerequisites: ENV 105, CHE 109, CHE 110, or consent of instructor.
- [ENV367: Geographic Information Systems \(4 hours\)](#)  
General Education N2. Geographic information systems (GIS) are a specialized computer program used widely at all levels of the scientific, business, government, and educational communities to examine data that are distributed on the Earth's surface. Through lecture, students will learn the theory behind and the terminology associated with GIS and spatial data. Through lab, students will learn techniques to create, collect, manage, analyze, and present data to address environmental and other issues through hands-on use of the industry standard ESRI ArcGIS software. Students will also create and present their own GIS based research project. (Required course fee) (SP) Prerequisite: ENV105 or ENV120
- [ENV370: Earth Surface Processes \(4 hours\)](#)

The processes, landforms, and sediments found on the Earth's surface play a fundamental role in resource management, reclamation, and many other environmental issues. This course explores the relationships between surface landforms and the underlying geologic structures; processes of wind, water, ice, and gravity that shape the Earth's surface; and the history of environmental and geologic change recorded in surface environments. Coursework focuses on qualitative and quantitative description of processes, landforms, and sediments through fieldwork and interpretation of aerial photographs, remote sensing images, and topographic and geologic maps. Four hours of lecture/discussion and one three-hour laboratory. (Required course fee) (FA of odd years) Prerequisite: ENV 105.

- [ENV370L: Earth Surface Processes Laboratory](#)  
Laboratory component for ENV370.
- [ENV380: Internship in Environmental Sci \(2 TO 4 hours\)](#)  
Prerequisite: Junior or senior standing and consent of major adviser. 480. Work-Oriented Internship 2-4 credits\*\*\* Prerequisite: Junior or senior standing and consent of major adviser. 491. Special Topics in Environmental Science 1-4 credits\*\*\* This course is a study of a selected topic not covered in regular course offerings. Lecture and discussion. Offered as needed. The topic will be announced prior to registration. A course fee may apply.
- [ENV391: Topics in Environmental Science \(1 TO 4 hours\)](#)  
This course is a study of a selected topic not covered in regular course offerings. Lecture and discussion. Offered as needed. The topic will be announced prior to registration. A course fee may apply.
- [ENV396: Research-Environmental Science \(2 TO 4 hours\)](#)  
Prerequisite: Junior or senior standing and consent of major adviser.
- [ENV398: Independ Study-Environmental Sci \(1 TO 4 hours\)](#)  
Prerequisite: Junior or senior standing, approval of the divisional dean and consent of the instructor.
- [ENV455: Watershed Management \(4 hours\)](#)  
This course examines the interaction of abiotic, biotic, and social components in the management of a drainage basin's terrestrial and aquatic resources. Through the examination of global watershed management literature and related case studies, students will actively engage in the development of a watershed management plan. Class projects will focus on selected Wisconsin, upper Midwest, and Great Lakes watersheds. (FA) Prerequisites: ENV277 or BIO225, plus junior or senior standing. ENV 367 recommended.
- [ENV480: Work-Oriented Internship \(2 TO 4 hours\)](#)  
Prerequisite: Junior or senior standing and consent of major adviser.
- [ENV491: Topics in Environmental Science \(1 TO 4 hours\)](#)
- [ENV496: Research in Environmental Sci \(2 TO 4 hours\)](#)  
Prerequisite: Junior or senior standing and consent of major adviser. (Course fee required)
- [ENV498: Independent Study in Envir Science \(1 TO 4 hours\)](#)  
Prerequisite: Junior or senior standing, approval of the divisional dean and consent of the instructor.



## Exercise Science

- [ESC100: Introduction to Exercise Science \(2 hours\)](#)  
An introductory level class for exercise science majors in which the student will understand the terminology, primary concepts and trends, and current scientific research within the major subdisciplines of exercise science. Students will describe and demonstrate an understanding of the role and responsibilities of exercise science professionals to include career opportunities and paths related to pursuing a career in exercise science or related disciplines. (FA, SA)
- [ESC201: Sports Nutrition \(4 hours\)](#)  
The goal of this course is to develop an understanding of the interaction of good nutrition and exercise habits for optimal functioning of the human body. Focus will be on nutritional strategies to maximize energy and recovery. (FA) Prerequisites: CHE 208 or HED 201.
- [ESC202: Advanced Sports Nutrition \(4 hours\)](#)  
This course offers an in-depth study of acute and chronic metabolic adaptations to exercise, followed by a study of diet manipulations to optimize exercise metabolism and improve performance. (Required course fee) (SP) Prerequisites: ESC 201 or consent of instructor.
- [ESC215: Group Exercise Workshop \(2 hours\)](#)  
This course is designed to develop proficiency in teaching skills specific to group exercise instruction for apparently healthy populations. The course focus is on the standards of basic exercise guidelines, choreography and design, instructional technique and cueing, exercise supervision, and overall presentation and performance. Supporting topics include kinesiology, nutrition, and legal implications. These standards are aligned with those of the American College of Sports Medicine. (Required course fee) (FA, SP)
- [ESC280: Exercise Physiology \(4 hours\)](#)  
Students explore the functions and the underlying scientific mechanisms of the body's physiological systems. The course will examine the acute response and chronic adaptations to cardiorespiratory and muscular conditioning. The students will also explore proper exercise prescription to enhance health and physical performance. (Required course fee) (FA, SP) Prerequisites: ANP130 or equivalent. Co-requisite: ANP140.
- [ESC280L: Exercise Physiology Lab](#)  
Laboratory component for ESC280.
- [ESC300: Nutrition and Health \(4 hours\)](#)  
This course investigates the functions of the six classes of nutrients: carbohydrates, lipids, proteins, vitamins, minerals, and water. The study of these nutrients will be extended to human physiological requirements, energy balance, food sources, labeling and safety, and deficiency symptoms. Students will examine healthy nutrition through the life cycle involving selected cultural groups, diet and physical activity as well as designated diseases. Students will be expected to apply their nutrition knowledge to their own lives along with a client/patient's life to assess dietary adequacy and compatibility with optimal health. (FA, SP) Prerequisites: ANP130 and ANP140.
- [ESC303: Nutrition Assessment and Prescription \(3 hours\)](#)  
This course is designed to give the student knowledge and tools to assess the current diet and exercise habits of an athlete. Students will be able to use the assessment results to prescribe an eating plan. (WN) Prerequisites: ESC 201.
- [ESC304: Nutrition and Fitness for Special Populations \(3 hours\)](#)  
The objective of this course is to apply the principles of sports nutrition to improve the health and functionality of special populations, including athletes with eating disorders. (SU) Prerequisites: ESC303 and ESC210/ESC320.
- [ESC305: Supplements for Sports Performance \(2 hours\)](#)  
The goal of this course is to provide the student with information on both safe and harmful supplementation for athletes. Specifically, the students will understand the proposed mechanism of action of a supplement, learn to evaluate the claim of effectiveness and evaluate its potential as an ergogenic aid. (WN)



- [ESC320: Exercise Testing and Prescription \(4 hours\)](#)  
This course provides students with the knowledge, skills, and abilities (KSA's) to appropriately select, perform and interpret preparticipation screenings, pre-exercise evaluations, commonly used field and laboratory exercise tests, basics of exercise prescription, and metabolic assessment for apparently healthy populations across the lifespan. (Required course fee) (FA, SP)  
Prerequisites: ESC280 or equivalent.
- [ESC320L: Exercise Testing & Prescription Lab](#)  
Laboratory component for ESC320.
- [ESC322: Kinesiology \(4 hours\)](#)  
This course explores the underlying mechanisms of human movement (anatomical and mechanical). Biomechanical terminology and principles are introduced. Students examine the laws of nature which govern movement, and how they can be applied to human movement in a manner designed to enhance performance. The course also explores the roles and functions of the nervous and musculoskeletal systems in human movement and performance and the manner in which they work individually and collectively during movement. Four hours of lecture/discussion and two hours of laboratory per week. (Required course fee) (FA, SP) Prerequisites: ANP130 and ANP140 or consent of instructor.
- [ESC322L: Kinesiology Lab](#)  
Laboratory component for ESC322.
- [ESC390: Strength & Conditioning Theory Across the Lifespan \(4 hours\)](#)  
This course is intended to prepare future professionals to apply scientifically sound principles to strength and conditioning programs. Students will study strength, speed, cardiovascular, and flexibility training through the use of concepts learned in physiology, anatomy, kinesiology, and psychology. Students will learn appropriate exercise program design, safe exercise technique, and the ways to assess physical improvement in clients. (Required course fee) (FA, SP) Prerequisites: ESC280 and ESC320 or equivalent.
- [ESC390L: Strength and Conditioning Theory Across the Lifespan Lab](#)  
Laboratory component for ESC390.
- [ESC391: Strength & Conditioning for Sport \(2 hours\)](#)  
This course presents advanced strength training and conditioning theory and practice. Designed primarily for students that may be involved in strength and conditioning for athletes at any age, the course explores periodization models and their utilization, mastery and analysis of explosive lifts, plyometric programming, speed and agility drills and programming, facility design, and ergogenic aids. (Required course fee) (WN) Prerequisites: HSC 303, HSC 322, HSC 110 or permission from instructor.
- [ESC420: Exercise Prescription for Special Populations \(4 hours\)](#)  
This is an advanced course in clinical exercise testing and prescription that will focus on the applicable assessment techniques, treatment procedures, exercise prescription, and patient education for individuals with cardiovascular, pulmonary, metabolic, musculoskeletal and neuromuscular diseases. This course will also examine common special needs such as cognitive, psychological and sensory disorders. The course is designed to provide the student with a basic understanding of the pathophysiology and exercise responses in these special populations. (Required course fee) (FA, SP) Prerequisites: ESC320 or equivalent.
- [ESC440: Lifetime Weight Management and Behavior Change \(4 hours\)](#)  
This course focuses on the various components of and strategies for successful weight management. The role of diet, physical activity, and behavior modification, as well as the physiological, sociological and psychological aspects of weight management will be discussed. Students will complete lifestyle, physical activity and nutritional analyses, and design weight management programs to include tailored physical activity plans. Students will also participate in client-centered physical activity and nutritional counseling. (SP) Prerequisites: PSY101, ESC300, and ESC320 or equivalent.
- [ESC460: Exercise Science Capstone \(4 hours\)](#)

This course provides students with an opportunity to observe and apply skills learned within the clinical or strength and conditioning tracks in the exercise science program under the direction and supervision of Exercise Science faculty. The course is also designed to prepare students for appropriate professional organization certification exams and for post-graduate study in exercise science or other health related disciplines such as medicine, physical therapy, cardiac rehab, occupational therapy and physician assistant. (Required course fee) (FA)

○ ESC480: Internship (12 hours)

This course is an opportunity for students to apply theories and concepts to actual work experiences under the direction of the capstone advisor and the site supervisor. The purpose of the internship is to provide opportunities to improve skills, reach goals, and adapt to the world of work. (FA, SP, SU) Prerequisites: Senior standing, major requirements completed, current Professional Rescuer CPR and First Aid certification, and approval of the instructor.

## French

- [FRE101: Elementary French I \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the French language. Introduction to French cultures, politics, history, and literature through texts in English or in English translation from French. Conducted primarily in French. (101-FA; 102-SP)
- [FRE102: Elementary French II \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the French language. Introduction to French cultures, politics, history, and literature through texts in English or in English translation from French. Conducted primarily in French. (101-FA; 102-SP)
- [FRE201: Intermediate French I \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the French language. Introduction to French cultures, politics, history, and literature through texts in English or in English translation from French. Conducted in French. (201-FA; 202-SP) Prerequisites: FRE 102 for FRE 201, FRE 201 for FRE 202 or equivalent.
- [FRE202: Intermediate French II \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the French language. Introduction to French cultures, politics, history, and literature through texts in English or in English translation from French. Conducted in French. (201-FA; 202-SP) Prerequisites: FRE 102 for FRE 201, FRE 201 for FRE 202 or equivalent.
- [FRE298: Independent Studies in French \(2 TO 4 hours\)](#)  
Prerequisites: Junior standing and written consent of instructor required for registration. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration.
- [FRE301: Conversation & Composition \(4 hours\)](#)  
General Education H1 and CCD. Emphasis on active use of the language, and functional grammar review, including interaction in social and general conversations, vocabulary building, syntactic structures and sentence patterns. Constant focus on pronunciation and diction, with introduction to basic phonetic and linguistic principles. Reading of literary and cultural texts. Discussions of contemporary topics. Conducted in French. Prerequisites: FRE 202 or equivalent.
- [FRE307: French Civilization \(4 hours\)](#)  
General Education H2. Acquaints students with the major events of French history, including the various artistic, cultural and social elements which have contributed to making France what it is today, in order to better understand the French, their customs and their lifestyle. Oral and written reports. Conducted in French. Prerequisite: FRE 301 or consent of instructor.
- [FRE318: Topics in French and Francophone Literatures \(4 hours\)](#)  
This course focuses on the study of French literature and theater. Students will discuss, analyze and develop their own critical approach and ideas around the texts in class and through oral, written and research reports and papers. Topics are drawn from the literature of French-speaking Europe, Africa, and the Caribbean. Conducted in French. May be repeated with change of topic. Prerequisites: FRE 301 or consent of the instructor.
- [FRE398: Independent Studies in French \(2 TO 4 hours\)](#)  
Prerequisites: Junior standing and written consent of instructor required for registration. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration.

## German

- [GER101: Elementary German I \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the German language. Introduction to Germanic cultures, politics, history, and literature through texts in English or in English translation from German. Conducted primarily in German. (101-FA; 102-SP) Prerequisite for GER 102: a grade of C or better in GER 101 or consent of the instructor.
- [GER102: Elementary German II \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the German language. Introduction to Germanic cultures, politics, history, and literature through texts in English or in English translation from German. Conducted primarily in German. (101-FA; 102-SP) Prerequisite for GER 102: a grade of C or better in GER 101 or consent of the instructor.
- [GER201: Intermediate German I \(4 hours\)](#)  
Continued practice in comprehension, speaking, reading, and writing. Review of and elaboration in grammatical structures, composition, and vocabulary building serve as aids in the development of conversational ability. Growth in reading skills and cultural enrichment produced through readings on contemporary German life. Conducted in German. (201-FA; 202-SP) Prerequisites: a grade of C or better in GER 102 or consent of the instructor for GER 201; a grade of C or better in GER 201 or equivalent or consent of the instructor for GER 202.
- [GER202: Intermediate German II \(4 hours\)](#)  
Continued practice in comprehension, speaking, reading, and writing. Review of and elaboration in grammatical structures, composition, and vocabulary building serve as aids in the development of conversational ability. Growth in reading skills and cultural enrichment produced through readings on contemporary German life. Conducted in German. (201-FA; 202-SP) Prerequisites: a grade of C or better in GER 102 or consent of the instructor for GER 201; a grade of C or better in GER 201 or equivalent or consent of the instructor for GER 202.
- [GER298: Independent Studies in German \(2 TO 4 hours\)](#)  
Prerequisites: Junior standing and consent of instructor. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP)
- [GER301: Conversation & Composition \(4 hours\)](#)  
General Education H1 and CCD. An advanced German language course, which provides continued practice in conversation and composition with emphasis on new vocabulary. This course includes functional grammar review. Readings and discussions of literary as well as non-literary texts introduce students to more complex topics in German life, history, and culture. Reinforcement of basic phonetic elements and syntax to further refine pronunciation and composition. Conducted in German. (FA) Prerequisites: a grade of C or better in GER 202 or equivalent or consent of the instructor.
- [GER318: Topics in German Culture and Literature \(4 hours\)](#)  
General Education H2. This course surveys specific time periods and/or movements in German cultural history, including art, architecture, music, and literature. Students develop their ideas and improve their written and spoken communication skills through essays, oral reports, and a research paper. May be repeated with change of topic. Conducted in German. (SP) Prerequisites: a grade of C or better in GER 301 or consent of instructor.
- [GER398: Independent Studies in German \(1 TO 4 hours\)](#)  
Prerequisites: Junior standing and consent of instructor. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP)
- [GER401: Advanced Conversation \(2 hours\)](#)  
Guided discussions on a variety of topics enhance vocabulary building. Opportunities for both formal oral presentation and informal conversation promote practice, skill and confidence. Grammar is reinforced through practice centering on a particular voice, tense, and/or theme.

Conducted in German. Prerequisites: a grade of C or better in GER 301 or 318 or equivalent or consent of the instructor.

- GER498: Independent Directed Study (2 TO 4 hours)  
Reading in a specific area of German literature, culture, or history. Weekly conferences conducted in German. Eight credits maximum will apply toward the degree. (FA, SP) Prerequisites: Junior standing and consent of instructor. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration.

## Graphic Communication

- [GRC106: Intro-Communication Technology \(2 hours\)](#)  
This class provides an introduction to numerous computer applications (Adobe Creative Suite) used within the field of digital communication. Special emphasis will be placed on desktop publishing software, history of graphic design, inter-environment communications, graphics formats and file handling software. (FA, SP)
- [GRC150: Digital Toolbox - Photoshop/ Illustrator 1 \(4 hours\)](#)  
This course introduces Graphic Communication students to the professional design tools used by current design industry. Students will learn the differences between the raster and vector applications and the uses of each, how to access/utilize various color systems (print and web), and prepare files for final production within print, web, and multimedia. (FA, SP)
- [GRC200: Color and Typography \(4 hours\)](#)  
Color and Typography will explore, in detail, two of the four primary elements in digital media: the implementation of color and use of typography. Use of additive, subtractive and Pantone colors will comprise the color portion of the course; examination into word/letterforms, typefaces, and comprehension studies will comprise the typography portion of the course. (SP) Prerequisite: GRC 150.
- [GRC210: History of Graphic Design \(2 hours\)](#)  
The history of Graphic Design begins with cave markings from approximately 200,000 years ago and continues through to today's digital technology processes. Students will investigate specific periods in graphic design history, explore historic methods in communication, and be introduced to the global influences in graphic design. (FA)
- [GRC290: Digital Design Studio \(4 hours\)](#)  
Students will build upon their skill set acquired in Digital Toolbox Photoshop and Illustrator I. Students will explore animation, web image development, paths and shapes creation, print file preparation, automation, and execution into other digital vehicles. Students will create a variety of projects that emphasize the importance of communication and audience. Prerequisite: GRC 150 for GRC Majors; ART 250 for Art Majors. (SP)
- [GRC295: 3-D Digital Design \(4 hours\)](#)  
3D Digital Design affords students the opportunity to create realistic environments, characters, and objects using state-of-the-art software. Students will learn to model, paint, sculpt, render and animate for environmental design, package design, gaming, product design, and industrial design. (FA)
- [GRC320: Intro to Multimedia Production \(4 hours\)](#)  
This course is designed as a Graphic Communication course, emphasizing artistic production using web development software (Adobe Dreamweaver), including, but not limited to: animation, digital video, and creating multimedia presentations and artworks. Multimedia, for the purposes of this course, means utilizing more than one of the following media elements: sound, images, text, video, animation, and/or interactivity, in all projects. Emphasis will be on the marriage of sound design, sophisticated content and visual interest. (FA) Prerequisite: ART 250, GRC 106, or GRC 150.
- [GRC330: Digital Video I \(4 hours\)](#)  
Students will learn how to use storyboarding techniques to develop short video project, videotape indoor and outdoor scripted scenes, edit digital video using iMovie, enhance audio, upload video to their own websites, and create DVDs/VCDs. Students will learn to identify scenes and still images that work best in a video project. Students will develop short video projects for specific and general audiences alike. (FA)
- [GRC390: Advanced Design Thinking \(4 hours\)](#)  
GRC 390 is a 4-credit course that builds upon the foundation provided in GRC290 Digital Design Studio. This course will continue to familiarize students with the elements, tools, and applications used to create effective graphic communication projects. Its primary focus will be on exploring and identifying a creative process in order to comprehensively solve design problems. Students will explore stages of ideation, observation, research, design, analysis, refinement, final

implementation and presentation. The course will expose students to various brainstorming techniques, investigative methodologies, software technology, and printing (finishing) techniques. Prerequisites: GRC150, GRC290, GRC295. (FA)

- [GRC391: Special Studies/Topics \(1 TO 4 hours\)](#)  
Study of a selected topic not covered in the regular curriculum. The topic will be announced prior to the beginning of the semester. Four credits maximum will apply toward degree. Prerequisite: Consent of instructor.
- [GRC395: Advanced Design Application \(4 hours\)](#)  
GRC395 is a 4-credit course that provides a foundation of graphic design and multimedia principles including image creation, storytelling, 2D and 3D animation, motion graphics, and interactive media. An underpinning of design studies, including theoretical, historical, cultural and professional contexts, is given throughout the course. The course is divided between lectures and real-world projects with a variety of professional applications for digital media. The course continues work from GRC 390, Design Thinking. Prerequisites: GRC 320, GRC 330, GRC 390. (SP)
- [GRC450: Capstone-Projects for Graphic Communication Majors \(4 hours\)](#)  
A seminar intended to consolidate and expand your experience and education as well as a foundation for continued research as you prepare to enter your chosen field. (SP) Prerequisites: All program requirements completed.
- [GRC480: Internship-Graphic Communication \(1 TO 12 hours\)](#)  
Students must complete a minimum of four credits (120 hours) of internship work while at Carroll University. The internship course involves professional work experience in your field under the supervision of faculty and industry personnel. Course is repeatable to a maximum of 12 credits. Each four credits should have substantially different learning experiences. 120 hours of internship work experience is expected for every 4 credit hours attempted. (FA, SP, SU) Prerequisites: Junior or senior standing and director approval. Grading is S/U.
- [GRC491: Special Studies/Topics \(1 TO 4 hours\)](#)  
Study of a selected topic not covered in the regular curriculum. The topic will be announced prior to the beginning of the semester. Four credits maximum will apply toward degree. Prerequisite: Consent of instructor.
- Courses Offered at Waukesha County Technical College
  - [GRC110: Print Media/Digital Publishing I \(3 hours\)](#)  
Study offset lithography, flexography, and digital printing. Compare and contrast the advantages and disadvantages of the printing methods of gravure, and screen-printing. Produce single, two- and four-color printed pieces. Acquire knowledge relating to CTP, the PMS system, screens, halftones, print careers, print economics and the four-color process.
  - [GRC120: Print Media II \(3 hours\)](#)  
Print single and multicolored projects using primarily Heidelberg Printmaster GTO2 color 20-inch presses. Study the common elements of all presses the feeder, registration, printing, and delivery systems. Learn basic press maintenance and problem solving, pressroom chemistry, and safety. Become familiar with paper of various kinds, weights, textures, and sizes, as well as various types of ink. Prerequisites: GRC 106.
  - [GRC121: Digital Illustration \(3 hours\)](#)  
Enhance ability to draw on the computer with Adobe Illustrator. Learn how to apply various filters and colors to objects; create masks around objects; use the transformation tools (rotate, scale, reflect, shear, blend); create compounds and make special dashed lines to create many special effects. Prerequisites: ART 250 and GRC 106.
  - [GRC122: Post Press/Distribution \(3 hours\)](#)  
Explore current and emerging technologies for binding, finishing, and distributing printed materials. Learn the basic operations of commercial bindery and finishing equipment.
  - [GRC130: Print Media III \(3 hours\)](#)

Use a computerized press console to set up and operate a Heidelberg SM742 color perfecting press. Reproduce high quality line and halftone copy in multiple colors on a Komori Sprint 262 color, a Heidelberg Printmaster GTO 525 color and other two-color presses. Discuss flexographic printing and platemaking.

○ GRC135: Digital Workflows (3 hours)

Study computer integrated manufacturing technologies as applied to commercial printing production problems. Discuss preflighting, trapping, and imposition. Learn to properly prepare and analyze digital files for output to eliminate problems that can occur during the printing production process. Prerequisites: 204121 Digital Illustration and 204131 ImageEditing/Photoshop.

○ GRC140: Print Materials and Estimating (3 hours)

Examine the scope and functions of printing estimating. Estimate, cost, and price various printing services. Discuss topics including computers for production and management, developing a cost estimating system, estimating paper, ink electronic prepress, press and finishing operations, and marketing and management issues. Analyze various operations within the printing industry. Prerequisites: 204139 Digital Workflows.

○ GRC141: Production Coordination/Customer Service (3 hours)

Customer Service Explore the commercial printing manufacturing process. Examine the role and function of the customer service representative, electronic workflows, and time requirements for production of commercially printed products that are within budget. Prerequisites: 204122 Post Press/Distribution, 204130 Print Media.

○ GRC142: Color Management (3 hours)

Combine math, physics, and chemistry concepts with measurement and statistical process control methods to appraise, control, and improve color reproduction. Learn to use and work with densitometers, spectrodensitometers, spectrophotometers, tone reproduction control software, and color measurement software.



## Health Care Administration

- [HCA100: Health Care Terminology \(2 hours\)](#)  
The study of basic medical terminology by learning root words, prefixes and suffixes. The study focuses on correct pronunciation, spelling and use of medical terms. Anatomy, physiology, and pathology of disease are discussed yet no previous knowledge of these topics is necessary. (SP only)
- [HCA150: Introduction to Health Care \(4 hours\)](#)  
This course provides an introduction to the U.S. Health Care system. The current and historical social, political, and scientific factors that influence the U.S. Health Care System are reviewed. Students are introduced to the structure, organization, financing, and utilization of health and care services in the United States. Comparison of international and United States health delivery and are reviewed. (SP only)
- [HCA200: Health Care Economics and Policy \(4 hours\)](#)  
Health policy is examined from an economic perspective. Basic economic theories and their relationships to the structure and function of the U.S. health care system are explored. Alternative health care systems and health care reforms are also evaluated. (FA only) Pre-requisites: BUS101 and HCA150.
- [HCA300: Health Care Management \(4 hours\)](#)  
This course addresses the management of organizations that deliver health care services. The courses will examine the principles of effective management including organizational design, motivation, leadership, conflict management, teamwork, and cultural proficiency. Management issues that distinguish health services organizations from other types of organizations will be identified and strategies for dealing with these issues will be evaluated. (SP only) Pre-requisites: BUS101 and HCA150.
- [HCA350: Health Care Law and Ethics \(4 hours\)](#)  
Principles of law and the U.S. legal system are applied, in part through case study and exploration of current events, in the areas of health care management. Legal issues include malpractice, contracts, corporate liability, professional liability, patient rights, and the legal aspects of managed care. (FA only) Pre-requisites: BUS101 and HCA150.
- [HCA400: Health Care Financial Management \(4 hours\)](#)  
This course is designed to impart a working knowledge of introductory accounting and financial management concepts, techniques, and vocabulary as they apply to health care organizations. Applications of modern hospital and healthcare organization financial management and decision-making are explored to prepare students for executive roles in healthcare settings. Financial management techniques used in budget preparation, investment alternatives, financial forecasting, and capital structures are presented with a focus on healthcare organizations. (FA only) Pre-requisites: ACC205, BUS101 and HCA150.
- [HCA450: Health Care Information Management \(4 hours\)](#)  
This course examines information systems as they relate to health care. Students will analyze information systems in clinical management, administration, education and research. The course emphasizes definitions, theory, technologies, workflow and expectations. (SP only) Pre-requisites: BUS101 and HCA150.

## Health Sciences

- [HSC300: Pharmacology \(3 hours\)](#)  
Addresses pharmacology for the licensed athletic trainer and nurse. Students explore basic knowledge about major drug groups, physiological effects of pharmacotherapeutic agents, utilization of pharmacotherapeutic agents, and storage, dispensing, and tracking protocols for pharmacotherapeutic agents. (FA only) Prerequisites: CHE 101/102 or higher, BIO 103/104 or ANP 130/140 or higher.
- [HSC311: Cardiovascular Physiology \(3 hours\)](#)  
This course is designed to put into practice basic and advanced cardiovascular physiology concepts. The course will include the conduction system, circulation system, ECG pattern recognition and intracardiac pressures. CV physiology will also explore the heart at the cellular level. Student will learn about the cardiac action potential, coupling and uncoupling of myocardial sarcomeres and preload/afterload concepts. This course will include cardiac heart sounds and other clinical clues used in conjunction with echocardiographic evidence to determine a cardiac diagnosis.
- [HSC312: Cardiovascular Principles \(3 hours\)](#)  
The first half of the course focuses on structure, function and pathology of the cardiovascular system. Mechanisms of function of the cardiovascular system will be discussed. Cardiac structures and identification will be covered. The second portion of this course will provide the necessary skills and knowledge to perform a complete cardiac Doppler examination. The course will cover the introduction to cardiac Doppler assessment, Doppler hemodynamics, and color flow imaging. The student will learn how to perform Doppler assessment and quantification of severity of valvular stenosis and regurgitation. Students will also learn how to provide information for both systolic and diastolic Doppler assessments.
- [HSC313: Adult Echocardiography I \(3 hours\)](#)  
This course focuses on the necessary knowledge and assessment of adult cardiomyopathies. Students will learn how to perform a comprehensive assessment of hypertrophic, restrictive, dilated, arrhythmogenic and unclassified cardiomyopathies. Students will learn the necessary 2D imaging and Doppler hemodynamics assessments to complete a full comprehensive examination.
- [HSC314: Adult Echocardiography II \(3 hours\)](#)  
This course focuses on the necessary knowledge and assessment of adult valvular heart disease. Students will learn how to perform a comprehensive valvular heart assessment. This course will include an introduction to valvular disease, echocardiographic assessment of the aortic, mitral, tricuspid and pulmonary valve using 2D, M-mode, Doppler and color flow imaging. The course will also cover surgical valvular interventions and interrogation of both pre-op and post-op complete echocardiographic hemodynamic assessments.
- [HSC315: Adult Echocardiography III \(3 hours\)](#)  
The focus of this course is to provide the basic knowledge of major cardiac pathophysiology that students will encounter while practicing echocardiography. This course will cover systemic and pulmonary hypertension, infiltrative heart disease, cardiac tumors and masses, pericardial disease, cardiac diseases related to systemic illness, and diseases of the great vessels. Students will learn how to complete a comprehensive 2D and Doppler assessment of these major cardiac diseases.
- [HSC316: Embryology of the Heart \(3 hours\)](#)  
This course will discuss cardiovascular development as it relates to various types of congenital heart disease.
- [HSC317: Special Procedures in Echocardiography \(3 hours\)](#)  
This course focuses on the necessary knowledge and role of cardiac sonographers in special cardiac imaging procedures. Students will learn the fundamentals as well as the basic techniques of transesophageal imaging, contrast echocardiography, cardiac resynchronization therapy, pacemaker optimization setting, strain rate, twist/torsion, three-dimensional (3D) and pericardiocentesis imaging.
- [HSC318: Pediatric Echocardiography I \(3 hours\)](#)

This course will introduce the student echocardiographer to various types of congenital heart disease. The types of congenital heart disease to be discussed in this course are; atrial septal defect (ASD), ventricular septal defect (VSD), patent ductus arteriosus (PDA), transposition of the great arteries (TGA), double outlet right ventricle (DORV) and double outlet left ventricle (DOLV).

○ [HSC319: Stress Echocardiography \(3 hours\)](#)

The intent of this course is to focus on preparing the student for coronary artery disease and stress echocardiography testing. Students will become competent in coronary artery distribution and anomalies. Student will actively participate in numerous stress echocardiographic examinations during this rotation.

○ [HSC320: Pediatric Echocardiography II \(3 hours\)](#)

This course will discuss the role of ultrasound in evaluating the pediatric heart and complex congenital heart disease. Types of CHD to be discussed in this course include inflow lesions, review of conotruncal anomalies, outflow lesions, cardiac chamber anomalies, abnormal vascular communications, cardiomyopathies, and post-operative evaluation of repair of congenital heart disease.

○ [HSC350: Introduction to Radiologic Science and Healthcare \(2 hours\)](#)

This 16 week two-credit course is designed as an introduction to provide an overview of the foundations in radiography and the practitioner's role in the health care delivery system. Principles, practices and policies of the health care organizations are examined and discussed in addition to professional responsibilities of the radiographer. Course content will include an introduction to basic concepts of body mechanics, vital signs, EKG, infection control and medical emergencies. CPR certification will be completed. Evaluation will be on the basis of critical thinking questions, a patient care paper, unit tests and a final exam.

○ [HSC351: Seminar in Radiography I \(3 hours\)](#)

This is a three-credit course; content is designed to provide the basic concepts of patient care, including consideration for the diversity, physical and psychological needs of the patient and family. In addition the course will provide the intern with advanced knowledge of aseptic and sterile techniques, venipuncture, pharmacology and medical ethics and law. Evaluation will be on the basis of quizzes, unit tests, and a final exam.

○ [HSC352: Radiation Protection \(2 hours\)](#)

This is a two-credit course. Content is designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are incorporated. Course includes all aspects of radiation protection, dose limiting recommendations, detection duties and the cardinal principles of protection. Evaluation is on the basis of quizzes, unit tests and a final exam.

○ [HSC353: Medical Terminology \(2 hours\)](#)

This is a two-credit course. This will be a self-study unit. Interns will be required to complete all tests on the intranet. All assignments must be completed by the end of the second semester. Course work includes medical suffixes and prefixes, word-roots, and combining forms. Evaluation will be based on unit tests. Note: Only students accepted into the hospital phase of the Radiologic Technology program may register for this course.

○ [HSC354: Principles of Imaging I \(2 hours\)](#)

This is a two-credit course; content is designed to provide an overview of basic mathematics, an introduction to x-ray production, exposure factors, the control panel, beam restriction, filters, computed radiography, grids and radiographic quality. Evaluation will be based quizzes, unit exams and a final exam.

○ [HSC355: Principles of Imaging II \(3 hours\)](#)

This is a three-credit course; content is design to provide an knowledge on radiographic film, screens and film processing, radiographic quality, special imaging equipment. Evaluation will be based on quizzes, unit exams and a final exam.

○ [HSC356: Imaging Procedures I \(5 hours\)](#)

This is a five-credit course utilizing lectures, demonstrations and laboratory practice. Items to be covered include radiographic anatomy and procedures and of the upper and lower extremities, chest, abdomen, and barium studies. Pediatric imaging for each procedure will be discussed. The interns will identify radiographic anatomy, assess radiographic images for accurateness and identify evaluation criteria for a variety of procedures. This course integrates knowledge and skills from several didactic units. Evaluation will be based on quizzes, unit tests and a final exam.

○ [HSC357: Imaging Procedures II \(5 hours\)](#)

This is a five-credit course, utilizing lectures, demonstrations and laboratory practice. Radiographic anatomy and procedures for the bony thorax, vertebral column, and iodinated studies will be covered. Pediatric imaging for each procedure will be discussed. The pharmacology of contrast media will be introduced. The intern will identify radiographic anatomy, assess radiographic images for accurateness and identify evaluation criteria for a variety of procedures. This course integrates knowledge and skills from several didactic units. Evaluation will be based on quizzes, unit tests and a final exam.

○ [HSC358: Imaging Procedures III \(3 hours\)](#)

This is a three-credit course, utilizing lectures, demonstrations and laboratory practice. Radiographic anatomy and procedures for the cranium, facial bones will be discussed. Pediatric imaging for each procedure will be discussed. The interns will identify radiographic anatomy, assess radiographic images for accurateness and identify evaluation criteria for a variety of procedures. Historical exams and special fluoroscopic imaging will also be presented. This course integrates knowledge and skills from several didactic units. Evaluation will be based on quizzes, unit tests and a final exam.

○ [HSC359: Radiography Clinical Educ I \(3 hours\)](#)

The clinical education is broken down into six semesters. There are a required number of competencies the intern must complete by the end of the 6th semester. Evaluation of the intern's positioning skills, equipment manipulation, and use of radiation protection, patient care and knowledge of image production is conducted by the Clinical Instructors, Clinical Coordinator, Program Director and qualified staff technologists. The breakdown of clinical credit is as follows: Semester I HSC 359 3 credits Semester II HSC 360 3 credits Semester III HSC 361 4 credits Semester IV HSC 459 3 credits Semester V HSC 460 3 credits Semester VI HSC 461 4 credits

○ [HSC360: Radiography Clinical Educ II \(3 hours\)](#)

The clinical education is broken down into six semesters. There are a required number of competencies the intern must complete by the end of the 6th semester. Evaluation of the intern's positioning skills, equipment manipulation, and use of radiation protection, patient care and knowledge of image production is conducted by the Clinical Instructors, Clinical Coordinator, Program Director and qualified staff technologists. The breakdown of clinical credit is as follows: Semester I HSC 359 3 credits Semester II HSC 360 3 credits Semester III HSC 361 4 credits Semester IV HSC 459 3 credits Semester V HSC 460 3 credits Semester VI HSC 461 4 credits

○ [HSC361: Radiography Clinical Educ III \(4 hours\)](#)

The clinical education is broken down into six semesters. There are a required number of competencies the intern must complete by the end of the 6th semester. Evaluation of the intern's positioning skills, equipment manipulation, and use of radiation protection, patient care and knowledge of image production is conducted by the Clinical Instructors, Clinical Coordinator, Program Director and qualified staff technologists. The breakdown of clinical credit is as follows: Semester I HSC 359 3 credits Semester II HSC 360 3 credits Semester III HSC 361 4 credits Semester IV HSC 459 3 credits Semester V HSC 460 3 credits Semester VI HSC 461 4 credits

○ [HSC370: Introduction to Diagnostic Medical Sonography \(3 hours\)](#)

This course encompasses the first four (4) weeks of training. Course content includes emphasis on personal adaptation skills, nursing skills and staff development issues. An introduction to basic sonographic terminology, techniques, ultrasound physics, scanning techniques and abdominal sonography form the framework for future study. Lectures are correlated with scan lab demonstration and practice. The student handbook policies and procedures are emphasized.

○ [HSC371: Abdominal Sonography I \(3 hours\)](#)

This course focuses on the normal gross, cross-sectional, relational and sonographic anatomy of the upper abdomen to include blood vessels, liver, gall bladder, biliary system and pancreas. Physiology, pathology and related laboratory values are emphasized and correlated with sonographic findings. Lectures are correlated with scan lab demonstration and practice for each organ system.

○ HSC372: Abdominal Sonography II (3 hours)

This course focuses on the normal gross, cross-sectional, relational and sonographic anatomy of the upper abdomen to include kidneys, spleen, adrenal glands and retroperitoneum. Physiology, pathology, and related laboratory values are emphasized and correlated with sonographic findings. The use and importance of color and spectral Doppler will be emphasized. Each student must formally present one case study during this semester. Lectures are correlated with scan lab demonstration and practice for each organ system.

○ HSC373: Clinical Education I (3 hours)

The clinical component of our program allows students to rotate through all aspects of general and vascular sonography. Students progress in competence and ability on an individual basis and within the guidelines set forth by program faculty. A total of 19 competencies must be achieved during the duration of the program. This course focuses on an introduction to sonographic scanning, beginning abdominal technique and development of clinical skills. Sonographic technique is also practiced during routinely scheduled scan lab sessions, which are conducted by the program faculty.

○ HSC374: Clinical Education II (3 hours)

The clinical component of our program allows students to rotate through all aspects of general and vascular sonography. Student's progress in competence and ability on an individual basis and within the guidelines set forth by program faculty. A total of 19 competencies must be achieved during the duration of the program. This course will focus on the mastery of abdominal and pelvis/transvaginal scanning, and development of obstetrical scanning skills. Sonographic technique is also practiced during routinely scheduled scan lab sessions, which are conducted by the program faculty.

○ HSC375: Clinical Education III (3 hours)

The clinical component of our program allows students to rotate through all aspects of general and vascular sonography. Student's progress in competence and ability on an individual basis and within the guidelines set forth by program faculty. A total of 19 competencies must be achieved during the duration of the program. This course focuses on the refinement of abdominal, pelvic, obstetrical and small parts scanning skills. Sonographic technique is also practiced during routinely scheduled scan lab sessions, which are conducted by the program faculty.

○ HSC376: OB/GYN Sonography I (3 hours)

This course focuses on the normal gross, cross-sectional, relational and sonographic anatomy of the non-gravid female pelvis and the first trimester gravid uterus and developing fetus. Physiology, pathology and related laboratory values are emphasized and correlated with sonographic findings.

○ HSC377: OB/GYN Sonography II (3 hours)

This course focuses on the gravid uterus and developing fetus. Normal gross, cross-sectional, relational and sonographic anatomy will be discussed. Gestational dating methods, measurements, fetal and maternal health, placenta and multiple pregnancies are considered. Physiology, pathology and related laboratory values are emphasized and correlated with sonographic findings. Lectures are correlated with practical clinical experience.

○ HSC378: OB/GYN Sonography III (3 hours)

This course encompasses the disease states and toxins affecting both the developing fetus and the mother. Abnormal fetal development, anatomy and anomalies are emphasized. Lectures are correlated with practical clinical experience. Each student must formally present one case study during this semester.

○ HSC379: Specialized Sonography (3 hours)

This course focuses on the normal gross, cross-sectional, relational and sonographic anatomy of superficial structures, to include the male pelvis (bladder, prostate and scrotum), the thyroid and parathyroid glands and the breast. Pathologic findings encountered during these exams will be correlated with possible causative etiologies. Physiology, pathology and related laboratory values are emphasized and correlated with sonographic findings.

- [HSC380: Sonography Principles & Instrumentation \(3 hours\)](#)  
This course focuses on mathematical principals, the characteristics of sound and the mechanism of sonographic image production and display. Potential biological effects and safety are discussed together with the practical application of physical concepts.
- [HSC430: Seminar in OB/GYN \(3 hours\)](#)
- [HSC431: Fetal Echocardiography \(3 hours\)](#)  
This course will discuss the role of ultrasound in evaluating the fetal heart and introduce the student to a broad spectrum of congenital heart disease. This course will cover embryology of the heart along with the fetal echocardiography exam and protocols.
- [HSC432: Vascular Sonography III \(3 hours\)](#)  
This course focuses on the normal and abnormal gross, relational, cross-sectional and sonographic anatomy of the vascular system to include the abdominal vasculature, organ transplants, and penile Doppler. Mechanisms of disease, unique to the vascular system, as well as the relationship between cardiovascular disease and the health of other organ systems will be discussed. Correlation of laboratory findings and etiologies of disease will be covered. Advanced scanning techniques will be discussed. A short correlation of statistical data and vascular testing will be covered.
- [HSC434: Introduction to Pediatric Imaging \(3 hours\)](#)  
This course focuses on the anatomy, physiology, pathology and pathophysiology of each organ system of the abdomen, pelvis and other structures typically seen in the pediatric and adolescent patient. Normal anatomy and disease processes within the gastrointestinal system of the pediatric and adult patient will also be discussed. Students will become familiar with the clinical symptoms, lab values and specific ultrasound protocols for normal and abnormal cases.
- [HSC435: Introduction to Musculoskeletal Imaging \(3 hours\)](#)  
This course focuses on the introduction of normal gross, cross-sectional, relational and sonographic anatomy of the musculoskeletal system. Pathologic findings encountered during these exams will be correlated with possible causative etiologies. Physiology and pathology are emphasized and correlated with sonographic findings.
- [HSC450: Radiographic Physics I \(2 hours\)](#)  
This is a two-credit course. Course content is designed to establish basic knowledge of atomic structure and terminology. Also presented are the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter. Introduction will include magnetism, electricity, and electromagnetism. Evaluation will be on the basis of unit tests and a final exam.
- [HSC451: Radiographic Physics II \(2 hours\)](#)  
This is a two-credit course. Content is designed to establish knowledge in tube and generator circuitry. Also presented are the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter. Evaluation will be on the basis of quizzes, unit tests and a final exam.
- [HSC452: Digital Imaging \(3 hours\)](#)  
This is a three-credit course; content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition display, archiving and retrieval are discussed. Guidelines for selection of exposure factors and evaluating images within a digital system assist interns to bridge between film-based and digital imaging systems. Evaluation will be on the basis of quizzes, unit tests, and a final examination.
- [HSC453: Seminar in Radiography II \(2 hours\)](#)



This is a two-credit course; content is designed to provide the intern the ability to evaluate all aspects of the imaging system from processor to generator. The intern will perform basic equipment tests, identify and trouble shoot equipment problems. Lecture on quality control and quality assurance procedures within a radiology department will be covered. Evaluation will be on the basis of the accuracy and timeliness of laboratory procedures, unit tests and a final exam.

○ HSC454: Cross Sectional Anatomy (3 hours)

This is a three-credit course designed to give the intern basic knowledge of cross-sectional anatomy at a minimum of the head and neck, thorax and abdomen. Evaluation will be on the basis of quizzes, unit tests and a final exam. Instruction incorporates CT and MR images.

○ HSC455: Independent Study (2 hours)

Interns will be assigned a written research project that will include an oral presentation, video display or a scientific exhibit. This project will be assigned two credits. This will enable the intern to develop critical thinking, research and writing skills along with an appreciation for professional development. Evaluation will be on the basis of research organization, completeness and presentation. The intern will select a topic of their choice. Successful completion of the independent study is a graduation requirement.

○ HSC456: Imaging Procedures IV (2 hours)

This is a two-credit course. Topics to be covered include Special Orthopedic positioning, special gastrointestinal positioning, interventional procedures, basic principles of CT and MRI imaging. Evaluation will be on the basis of quizzes, tests and a final exam.

○ HSC457: Radiographic Pathology (2 hours)

This is a two credit course; content is designed to introduce concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection. Evaluation will be on the basis of quizzes, unit exams and a final exam.

○ HSC458: Radiation Biology (2 hours)

This is a two-credit course; content is designed to provide an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues and the body as a whole are presented. Factors affecting biologic response are presented, including acute and chronic effects of radiation. Evaluation is on the basis of quizzes, unit tests and a final exam.

○ HSC459: Radiography Clinical Educ IV (3 hours)

The clinical education is broken down into six semesters. There are a required number of competencies the intern must complete by the end of the 6th semester. Evaluation of the intern's positioning skills, equipment manipulation, and use of radiation protection, patient care and knowledge of image production is conducted by the Clinical Instructors, Clinical Coordinator, Program Director and qualified staff technologists. The breakdown of clinical credit is as follows:  
Semester I HSC 359 2 credits Semester II HSC 360 3 credits Semester III HSC 361 4 credits  
Semester IV HSC 459 3 credits Semester V HSC 460 3 credits Semester VI HSC 461 4 credits

○ HSC460: Radiography Clinical Educ V (3 hours)

The clinical education is broken down into six semesters. There are a required number of competencies the intern must complete by the end of the 6th semester. Evaluation of the intern's positioning skills, equipment manipulation, and use of radiation protection, patient care and knowledge of image production is conducted by the Clinical Instructors, Clinical Coordinator, Program Director and qualified staff technologists. The breakdown of clinical credit is as follows:  
Semester I HSC 359 2 credits Semester II HSC 360 3 credits Semester III HSC 361 4 credits  
Semester IV HSC 459 3 credits Semester V HSC 460 3 credits Semester VI HSC 461 4 credits

○ HSC461: Radiography Clinical Educ VI (4 hours)

The clinical education is broken down into six semesters. There are a required number of competencies the intern must complete by the end of the 6th semester. Evaluation of the intern's positioning skills, equipment manipulation, and use of radiation protection, patient care and knowledge of image production is conducted by the Clinical Instructors, Clinical Coordinator, Program Director and qualified staff technologists. The breakdown of clinical credit is as follows:  
Semester I HSC 359 2 credits Semester II HSC 360 3 credits Semester III HSC 361 4 credits  
Semester IV HSC 459 3 credits Semester V HSC 460 3 credits Semester VI HSC 461 4 credits

- [HSC462: Professional Development \(2 hours\)](#)  
This is a two-credit course that serves as an overview of the entire program. This course will prepare the intern for the American Registry of Radiologic Technologists. Course will also include study of the evolution of modern health care systems and professional organizations in Radiology. Evaluation will be on the basis of mock registry examinations.
- [HSC470: Vascular Sonography I \(3 hours\)](#)  
This course focuses on the physical principles relating to the vascular system, normal gross, relational, cross-sectional and sonographic anatomy of the carotid. Mechanisms of disease, unique to the vascular system, as well as the relationship between cardiovascular disease and the health of other organ systems will be discussed. Correlation of laboratory findings and etiologies of disease will be covered. Doppler principles and vascular hemodynamics are presented.
- [HSC471: Vascular Sonography II \(3 hours\)](#)  
This course focuses on the normal gross, relational, cross-sectional and sonographic anatomy of the vascular system to include intracranial vessels, lower and upper extremity venous and arterial systems. Mechanisms of disease unique to the vascular system, as well as the relationship between cardiovascular disease and the health of other organ systems will be discussed. Correlation of laboratory findings and etiologies of disease will be covered. Doppler principles and vascular hemodynamics are presented. Various vascular scanning techniques will be discussed.
- [HSC472: Seminar in Professional Development \(3 hours\)](#)  
The main objective is for the student to apply the academic and clinical knowledge used in this program to develop a senior project. This course is designed to showcase the student's ever evolving knowledge in sonography. The senior project consists of two parts: an in-depth written paper and oral presentation to one's peers. Preparation for the sonography boards and professional review: The main objective is to provide the student with the opportunity to improve test-taking skills in preparation for the examination of the American Registry for Diagnostic Medical Sonography. Job-hunting, interview skills and resume writing will provide the student with skills needed when seeking employment. An overview of professional behavior and standards will be reviewed at this time.
- [HSC473: Clinical Education IV \(3 hours\)](#)  
Students are scheduled for clinical practicum at participating clinical education centers. Students progress in competence and ability on an individual basis and within the guidelines set forth by program faculty. Students are routinely evaluated on professional growth, personal interactions, and technical ability. A predetermined number of competencies specific to each learning concentration must be achieved throughout the duration of the program. Clinical experience rotations include abdominal imaging, OB/GYN, transthoracic cardiac imaging and vascular technology. Sonographic technique is also practiced during routinely schedule scan lab sessions, which are conducted by the program faculty.
- [HSC474: Clinical Education V \(3 hours\)](#)  
The clinical component of our program allows students to rotate through all aspects of general and vascular sonography. Student's progress in competence and ability on an individual basis and within the guidelines set forth by program faculty. A total of 19 competencies must be achieved during the duration of the program. This course focuses on the mastery of all previously learned concentrations. Scan labs are no longer administered. Students should demonstrate the ability to perform at a level that does not require direct supervision.
- [HSC475: Clinical Education VI \(3 hours\)](#)  
Preliminary competencies and clinical competencies are completed by this semester. Students who fail to complete the clinical competencies by the end of this semester will not be able to graduate. Clinical instructors will evaluate the student's performance by reviewing finished sonograms (or required series of sonographic images) produced by the student. All clinical evaluations and paperwork is completed on-line through E\*Value and is submitted at the mid- and end-points of each clinical rotation. Clinical instructors will observe the student during each scanning procedure undertaken at the facility. Students will successfully complete all remaining clinical competency examinations, under the supervision of the clinical instructors, prior to graduation. The clinical competencies will be assigned a grade by the Clinical Education Coordinator/dedicated cardiac



sonographer. Clinical experience rotations will include pediatric echocardiographic examinations and adult echocardiography pathology examinations. Faculty assesses each student during scanning labs offered with each didactic unit taught this semester. After completion of introductory scan labs and didactic material, students perform their preliminary competencies. Clinical instructors will evaluate the student's performance by reviewing finished sonograms (or required series of sonographic images) produced by the student. All clinical evaluations and paperwork is completed on-line through E\*Value and is submitted at the mid- and end-points of each clinical rotation.

○ HSC476: Seminar in Education and Management (3 hours)

This course will discuss theories and techniques of health care management, education, and research. Management strategies and concepts will be discussed and real-life case studies will be analyzed. Education theories and techniques as they specifically pertain to teaching in the allied health arena will be covered. Research methodology, basic research techniques and the unique role of the sonographer in research projects will be discussed. Problem solving strategies for scenarios in all three areas will be outlined. Areas of overlap in management and education will be discussed. Students will choose management, education or research as an area for their final project and be assigned to a mentor within their chosen area, from the health care community. Students will work on their final projects under the direction and supervision of their mentors and the instructor. Students will be responsible for participating in weekly online and in-class discussions on topics covered in the assigned readings, for their particular area of interest. Prerequisite: Acceptance to the DMS hospital phase.

## History

- [HIS103: Roots of the Western World \(4 hours\)](#)  
General Education H1. This survey course traces the Western experience from our classical heritage to the French Revolution. It examines the major political, social, economic and religious institutions which worked to shape the world we live in today. (FA, SP)
- [HIS104: Europe and the Modern World \(4 hours\)](#)  
General Education H1. This survey course complements HIS 103 by exploring ideas and events that have shaped European society and Europe's relations with other parts of the world since the French Revolution. (FA, SP)
- [HIS105: America to 1877 \(4 hours\)](#)  
General Education H1. This course introduces students to the origins of the United States from pre-Columbian times to the end of Reconstruction. (FA, SP)
- [HIS106: America since 1877 \(4 hours\)](#)  
General Education H1. A study of the American experience since Reconstruction. (FA, SP)
- [HIS106H: America Since 1877 \(4 hours\)](#)  
A study of the American experience since Reconstruction, which focuses primarily on stimulating critical thinking and historical inquiry. The course draws upon extensive primary sources to explore a series of historical questions about recent American history and culture. (FA, odd years)  
Prerequisite: Honors student or permission of instructor.
- [HIS107: Understanding the Premodern World \(4 hours\)](#)  
General Education H1. An examination of global societies prior to 1500 with an emphasis on the non-western world, this course considers their development individually and in contact with one another, as well as their contributions to the making of the early modern world system. (FA)
- [HIS108: Understanding Our Contemporary World \(4 hours\)](#)  
General Education H1. An examination of non-western societies from 1500, their development, their responses to the West, and their contributions to the making of the modern world. (SP)
- [HIS110: History of Modern China \(4 hours\)](#)  
General Education H1 and CCD. This course examines Chinese history and culture with an emphasis on the 19th and 20th centuries. Specific attention is given to China's reformers and revolutionaries and their attempts to transform Chinese political, economic, and social institutions.
- [HIS112: Intro to Latin America History \(4 hours\)](#)  
General Education H1 and CCD. This survey of Latin America from preconquest to the present focuses on the historical roots of contemporary issues in Latin America such as poverty, race relations, cultural mixing, and international relations. The class draws in part on Latin American literature, arts, and cinema to facilitate this investigation. ENG 170 is recommended prior to enrollment. (SP)
- [HIS200: Workshop for Historians \(4 hours\)](#)  
This course prepares students for independent research in 300 level courses, the capstone, and beyond. Students discuss and apply tools, methods and interpretative approaches used in historical research. Students should plan to take this during their sophomore year, before enrolling in 300-level history courses. (SP)
- [HIS203: The American Civil War \(4 hours\)](#)  
Examines the multiple origins of the American Civil War and the two cultures swept up in the conflict. Traces the political, social, diplomatic and military history of the war years. Prerequisite: HIS 105 or permission of the department chair.
- [HIS210: Hist-American Foreign Relations \(4 hours\)](#)  
General Education H2. An overview of the foreign relations of the United States from colonial times to the present, with an emphasis on the period since 1900. The course examines the ways in which economic developments, domestic concerns, and cultural attitudes have helped shape the foreign policies of the United States. (SP, even years)

- [HIS213: Women in American History \(4 hours\)](#)  
General Education H2. This course investigates the history of women in the United States from the colonial era to the present, with particular emphasis on the ways in which race and class have shaped women's experiences. (FA, even years)
- [HIS215: American Encounters: Natives, Africans, and Europeans in the Americas, 1350-1750 \(4 hours\)](#)  
General Education H2 and CCD. This course examines the complex interactions between indigenous peoples, European colonizers and African peoples in the Spanish, Portuguese, French and British American colonial worlds. The course begins with examination of the pre-Columbian native cultures and then traces the development colonial society with particular emphasis on the cultural exchanges that occurred between these disparate peoples and the role of labor, religion, and popular resistance in that history. (FA, odd years)
- [HIS217: Renaissance and Reformation Europe \(4 hours\)](#)  
General Education H2. This focuses on important changes occurring in Europe from the last quarter of the fourteenth century to the mid seventeenth century. The period was one of educational, cultural, and religious change and reform, including the development of such important religious traditions as Lutheranism, Calvinism, and the Baptist tradition. We will explore topics through the reading of primary and secondary sources, culminating in a research project focused on secondary source research. (SP odd years)
- [HIS224H: The World Since 1945 \(4 hours\)](#)  
General Education H1 and CCD. A discussion-based study of themes and conflicts that have shaped global society since the end of World War II. Students use primary documents, autobiographies, oral histories and other sources of their own choosing to examine the Cold War, the developing world, genocide and other topics. (FA, even years) Prerequisite: Honors student or permission of instructor.
- [HIS225H: Medieval Europe, China, and the Islamic Crescent \(4 hours\)](#)  
General Education H2 and CCD. A study of the period before the development of European hegemony, focusing on contact between these three overlapping world cultural zones. In this course we examine the way in which economic, cultural, and intellectual interchanges affected the development of the civilizations under consideration as well as laying the foundation for future global interaction. (SP, even years) Prerequisite: Honors student; history majors and minors may be admitted by prior consent of the instructor.
- [HIS254: Topics in Medieval European History \(4 hours\)](#)  
General Education H2. This reading seminar typically examines Western Europe during the Middle Ages. The period from 500 to 1500 is studied for its own sake as well as for its contributions to the making of the modern world. (FA, even years)
- [HIS257: Europe's Civil War: 1900-1950 \(4 hours\)](#)  
General Education H2 and CCD. This course examines political, social, cultural and technological upheavals in Europe during the first half of the 20th century, including WWI and WWII. The course combines chronological and thematic approaches to highlight the major retooling of Euro-centric attitudes during this period. Students will interpret the extent to which broad claims hold true for particular populations. HIS 257 is NOT a course in U.S. History, but does count as a 200-level course in the history major/minor. (SP, odd years) Prerequisite: H1 or equivalent, or permission of instructor.
- [HIS280: Internship in History \(2 TO 4 hours\)](#)  
An opportunity for majors to earn elective credit for work experiences related to history. Examples of potential internships include: research work at local historical societies, museum experience at Old World Wisconsin, work in public history, in non-profit organizations, or with various government agencies. Other work-oriented experiences may be designed by the student with the approval of the instructor. Internship credits will apply toward the degree but not toward the history major. The work is S/U graded, requires the consent of the instructor, and has a prerequisite of junior or senior standing. (FA, SP, SU)
- [HIS291: Topics in History \(2 TO 4 hours\)](#)

Intensive investigations of special subject matter. Recent topics include: World War II: Experiences and Legacies; America in the 1960s; Native American history; Central Europe; and Medieval Magic. Topics courses may be offered also at the 300 research course level. Students may take more than one of these topic courses. Prerequisite (for 300-level): Junior standing or consent of the instructor.

- [HIS298: Independent Study in History \(2 TO 4 hours\)](#)  
Generally permitted only in areas where the student has some background. (FA, SP) Prerequisite: Approval of the divisional dean and consent of the instructor.
- [HIS301: The Forging of a Nation - The Colonial and Revolutionary Experience in North America \(4 hours\)](#)  
General Education H2 and CCD. This course investigates the transformation of the English colonies in North America from the first encounters in the 1580s through the American Revolution, with particular emphasis on the social, political, and religious institutions that emerged out of the encounters between English colonists, Native Americans, and Africans. (SP, even years) Prerequisite: Junior standing or consent of the instructor.
- [HIS305: Recent America \(4 hours\)](#)  
This course examines the history of the United States since the end of World War II to the present. It explores in particular the important social, political, and cultural developments of the period. (SP, odd years) Prerequisite: Junior standing or consent of the instructor.
- [HIS316: Renaissance and Reformation Europe \(4 hours\)](#)  
General Education H2. This is a research-oriented course focusing on important changes occurring in Europe from the last quarter of the fourteenth century to the mid seventeenth century. The period was one of educational, cultural, and religious change and reform. We will explore topics through the reading of primary and secondary sources, culminating in a research project focused on primary sources. (SP, even years)
- [HIS318: American Indian History \(4 hours\)](#)  
General Education H2 and CCD. This course examines the history of the indigenous peoples of North America from prehistory to the present. Major themes will include the relationship between native peoples and the environment, the effect of contact on native cultures, the relationship among native tribes and between natives and the state, the place of the 'Indian' in popular culture, and the changing status and identity of American Indians in American society (SP, odd years)
- [HIS329: The German Experience \(4 hours\)](#)  
General Education H2 and CCD. A research-oriented course examining modern German history. Emphasis is placed on the process of unification, the Nazi era, the GDR and reunification. Also offered as POL 329. (FA, odd years) Prerequisite: Junior standing or consent of the instructor. Students planning to take HIS 329 for their German language minor must contact the instructor (in the semester before they enroll in HIS 329) to develop a plan for adapting coursework to incorporate and demonstrate appropriate use of the language.
- [HIS391: Topics in History \(4 hours\)](#)  
Intensive investigations of special subject matter. Recent topics include: World War II: Experiences and Legacies; America in the 1960s; Native American history; and Medieval Magic. Topics courses may be offered also at the 300 research course level. Students may take more than one of these topic courses. Prerequisite (for 300-level): Junior standing or consent of the instructor.
- [HIS398: Independent Study in History \(2 TO 4 hours\)](#)  
Generally permitted only in areas where the student has some background. (FA, SP) Prerequisite: Approval of the divisional dean and consent of the instructor.
- [HIS495: Kennan Seminar \(1 hours\)](#)  
This course provides our Kennan Scholars with the opportunity to discuss historical literature with history faculty in a small group setting. (FA, SP) Prerequisite: Open only to Kennan Scholars.

- HIS499: Capstone - Senior Seminar for Historians (4 hours)  
This course requires students to produce a high-quality research paper based largely on primary sources and to formally present their work before other students and the history faculty. Students will also complete a portfolio including a representative sample of their previous written work in history courses. (FA) Prerequisites: HIS 200 and one 300-level research course.

## Interdisciplinary Studies

- IDS200: Career Exploration and Preparation in the Humanities and Social Sciences (2 hours)  
The purpose of the career exploration and preparation course is to provide students with the tools necessary to succeed in their future careers by providing an innovative teaching and learning environment capable of maximizing student understanding knowledge, diversity and lifelong skills needed by graduates for effective adaptability, problem solving, and competitive excellence in a dynamic and complex world.

## Mathematics

- [MAT101: Intermediate Algebra \(4 hours\)](#)  
Topics include number systems, theory of equations and inequalities, introduction to functions and their graphs, applications of algebra. This course is the prerequisite to MAT 104, 106, 130 and CMP112. (FA, SP, SU) Prerequisites: One year of high school algebra and one year of high school geometry or placement.
- [MAT104: Foundations of Elementary Mathematics I \(4 hours\)](#)  
An introduction to problem solving, sets, number theory, numeration systems, and the structure of the real number system. Course material will be presented in a manner consistent with the NCTM Principles and Standards for School Mathematics. Recommended for education students only. (FA, SP) Prerequisite: MAT 101 or placement recommendation.
- [MAT106: Mathematics for the Liberal Arts \(4 hours\)](#)  
This elementary course in contemporary mathematics introduces the Bachelor of Arts student to the usefulness of mathematics. Real current-day problems are presented along with some of the mathematics techniques which have been used to solve them. Problems discussed will involve such topics as 'the traveling salesman problem,' exponential growth, voting systems, analysis of arguments and fractal geometry. (FA, SP, SU) Prerequisites: MAT 101 or placement recommendation.
- [MAT130: Elementary Functions \(4 hours\)](#)  
A study of rational, radical, exponential, logarithmic, and trigonometric functions designed to prepare students for MAT 140 or 160 (FA, SP) Prerequisites: MAT 101 or placement recommendation.
- [MAT140: Calculus and Its Applications \(4 hours\)](#)  
A compact version of Calculus I, II stressing problem-solving techniques and applications. Designed for students who need only one semester of calculus. Numerous examples are presented from accounting, biology, business, economics, and other fields. (FA, SP, SU) Prerequisite: MAT 130 or placement recommendation. May not be taken for credit by those who have completed MAT 160.
- [MAT160: Calculus I \(4 hours\)](#)  
A brief review of inequalities, functions and plane analytic geometry; limits and continuity; the derivative and the differential; applications of differentiation; L'Hospital's Rule; introduction to the Riemann integral. Includes differentiation of logarithmic and exponential functions, and indeterminate forms. History of selected topics is studied. Four hours of lecture and one hour of laboratory/recitation. (FA, SP) Prerequisite: MAT 130 or placement recommendation.
- [MAT160L: Calculus I - Laboratory](#)  
Laboratory component for MAT160.
- [MAT161: Calculus II \(4 hours\)](#)  
Applications of the Riemann integral; calculus of the natural logarithm and exponential functions; formal techniques of integration; improper integrals; series and sequences. History of selected topics is studied. Four hours of lecture and one hour of laboratory/recitation. (FA, SP) Prerequisite: MAT 160 or placement recommendation.
- [MAT161L: Calculus II - Laboratory](#)  
Laboratory component for MAT161.
- [MAT201: Foundations of Elementary Mathematics II \(4 hours\)](#)  
A study of introductory geometry, measurement, algebra, coordinate and transformation geometry, statistics and probability. Students will also be introduced to geometry computer software. Designed for the elementary education major. (FA, SP) Prerequisite: MAT 104.
- [MAT205: Discrete Mathematics \(4 hours\)](#)  
A study of set theory, propositional calculus, algorithms, relations, functions, combinatorics, recursion, discrete graphs, trees, automata. Intended for Computer Science majors only. (SP)

Prerequisites: CSC 226, MAT 140 or 160. May not be taken for credit by those who have completed MAT 206.

- [MAT206: Transition to Adv Mathematics \(4 hours\)](#)  
An introduction to fundamental concepts, structures and style of mathematics. Core topics are logic, sets, mathematical induction, relations, functions and graph theory. Special topics may include number theory, cardinality, or the construction of the real numbers. Special emphasis will be placed on developing and communicating mathematical arguments. (SP) Prerequisites: MAT 140 or 160. May not be taken for credit by those who have completed MAT 205.
- [MAT207: Calculus III \(4 hours\)](#)  
Vectors in the plane and in space, solid analytic geometry; calculus of functions of two variables; partial derivatives; divergence and gradient; multiple integrals, vector fields, line integrals, and surface integrals, Green's Theorem, Stoke's Theorem, Divergence Theorem. History of selected topics is studied. (FA) Prerequisite: MAT 161 or placement recommendation.
- [MAT208: Linear Algebra \(4 hours\)](#)  
Vector spaces; linear transformations and matrices; systems of linear equations; applications. (SP) Prerequisite: MAT 161 or 206.
- [MAT215: Engineering Mathematics I \(4 hours\)](#)  
An introduction probability and statistics as applied in engineering. Topics to be covered include descriptive statistics, probability distributions, confidence intervals, hypothesis testing, quality control, acceptance sampling, goodness of fit, nonparametric tests, and regression. May be used toward the mathematics minor, but not the mathematics major. (FA odd years) Prerequisite: MAT207, or concurrent registration in MAT207.
- [MAT216: Engineering Mathematics II \(4 hours\)](#)  
An introduction linear algebra and differential equations as applied in engineering. Topics to be covered include matrix algebra, linear independence and span, eigenvalues and eigenvectors, first-order ODE's, linear ODE's, series solutions, numerical methods, and Laplace Transforms. May be used toward the mathematics minor, but not the mathematics major. (FA even years) Prerequisite: MAT207, or concurrent registration in MAT207.
- [MAT305: Modern Geometry \(4 hours\)](#)  
A study of elementary geometry from an advanced standpoint; includes distance and congruence axioms, parallelism, incidence and order, and non-Euclidean geometries. History of selected topics is studied. (SP) Prerequisite: MAT 206.
- [MAT309: Differential Equations \(4 hours\)](#)  
An introduction to the theory and solution of ordinary differential equations and their applications; power series solution; introduction to numerical methods; and other topics. Prerequisites: MAT 161. Co-requisite MAT207. (FA, even)
- [MAT312: Theory of Probability & Statistics \(4 hours\)](#)  
An introduction to the mathematical theory of probability and statistics. Topics include: sample spaces; probability distribution functions; regression and correlation; hypothesis testing. History of selected topics is studied. (FA odd years) Co-requisite: MAT 207. May not be taken for credit by those who have completed ASC 302.
- [MAT320: Abstract Algebra \(4 hours\)](#)  
An introduction to modern abstract algebra to include topics in the theory of groups, rings and fields. Required of all mathematics majors. History of selected topics is studied. (FA odd years) Prerequisites: MAT 206 and 208.
- [MAT324: Numerical Analysis \(4 hours\)](#)  
Introduction to the numerical methods and algorithms fundamental to mathematical and scientific analysis. Error analysis and efficient programming techniques are stressed. Includes solving equations, linear and nonlinear systems, curve fitting, function approximation, interpolation, differentiation, integration and numerical solutions to differential equations. (SP even years) Prerequisites: MAT 161 and CSC 110; Co-requisite MAT 208.



- [MAT350: Mathematics Seminar \(4 hours\)](#)  
Mathematics Seminar topics vary by year. The course meets concurrent with MAT 350 and MAT 450, the Capstone Experience. The course is designed to give students exposure to the Capstone Experience and to give all mathematics students the opportunity to increase their breadth of study. (SP) Prerequisite: MAT 206 or instructor approval.
- [MAT391: Adv Topics in Mathematics \(2 TO 4 hours\)](#)  
These courses are designed to meet the special needs of students who have completed the prescribed courses for a major and wish to extend their study in specific areas. Students planning on graduate study should take courses in topology and other appropriate topics. Students interested in actuarial science should arrange for additional study in probability and statistics. Courses in applied mathematics can also be arranged. These courses may not be taken in lieu of courses specified for the major or minor. (FA, SP, SU with instructor consent) Prerequisites: Junior or senior standing, approval of the divisional dean and consent of the instructor.
- [MAT409: Mathematical Analysis \(4 hours\)](#)  
The study of theory and applications of analysis on the real line. Limits; continuity; differentiation; sequences and series of functions; integration. (FA even years) Prerequisites: MAT 161 and 206.
- [MAT450: Mathematics Senior Capstone \(2 TO 4 hours\)](#)  
Mathematics Seminar topics vary by year. The course meets concurrent with MAT 350 and MAT 450, the Capstone Experience. The course is designed to give students exposure to the Capstone Experience and to give all mathematics students the opportunity to increase their breadth of study. (SP) Prerequisite: MAT 206 or instructor approval.
- [MAT491: Adv Topics in Mathematics \(2 TO 4 hours\)](#)  
These courses are designed to meet the special needs of students who have completed the prescribed courses for a major and wish to extend their study in specific areas. Students planning on graduate study should take courses in topology and other appropriate topics. Students interested in actuarial science should arrange for additional study in probability and statistics. Courses in applied mathematics can also be arranged. These courses may not be taken in lieu of courses specified for the major or minor. (FA, SP, SU with instructor consent) Prerequisites: Junior or senior standing, approval of the divisional dean and consent of the instructor.

## Modern Languages

- [FRE101: Elementary French I \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the French language. Introduction to French cultures, politics, history, and literature through texts in English or in English translation from French. Conducted primarily in French. (101-FA; 102-SP)
- [FRE102: Elementary French II \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the French language. Introduction to French cultures, politics, history, and literature through texts in English or in English translation from French. Conducted primarily in French. (101-FA; 102-SP)
- [FRE201: Intermediate French I \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the French language. Introduction to French cultures, politics, history, and literature through texts in English or in English translation from French. Conducted in French. (201-FA; 202-SP) Prerequisites: FRE 102 for FRE 201, FRE 201 for FRE 202 or equivalent.
- [FRE202: Intermediate French II \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the French language. Introduction to French cultures, politics, history, and literature through texts in English or in English translation from French. Conducted in French. (201-FA; 202-SP) Prerequisites: FRE 102 for FRE 201, FRE 201 for FRE 202 or equivalent.
- [FRE298: Independent Studies in French \(2 TO 4 hours\)](#)  
Prerequisites: Junior standing and written consent of instructor required for registration. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration.
- [FRE301: Conversation & Composition \(4 hours\)](#)  
General Education H1 and CCD. Emphasis on active use of the language, and functional grammar review, including interaction in social and general conversations, vocabulary building, syntactic structures and sentence patterns. Constant focus on pronunciation and diction, with introduction to basic phonetic and linguistic principles. Reading of literary and cultural texts. Discussions of contemporary topics. Conducted in French. Prerequisites: FRE 202 or equivalent.
- [FRE307: French Civilization \(4 hours\)](#)  
General Education H2. Acquaints students with the major events of French history, including the various artistic, cultural and social elements which have contributed to making France what it is today, in order to better understand the French, their customs and their lifestyle. Oral and written reports. Conducted in French. Prerequisite: FRE 301 or consent of instructor.
- [FRE318: Topics in French and Francophone Literatures \(4 hours\)](#)  
This course focuses on the study of French literature and theater. Students will discuss, analyze and develop their own critical approach and ideas around the texts in class and through oral, written and research reports and papers. Topics are drawn from the literature of French-speaking Europe, Africa, and the Caribbean. Conducted in French. May be repeated with change of topic. Prerequisites: FRE 301 or consent of the instructor.
- [FRE398: Independent Studies in French \(2 TO 4 hours\)](#)  
Prerequisites: Junior standing and written consent of instructor required for registration. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration.
- [GER101: Elementary German I \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the German language. Introduction to Germanic cultures, politics, history, and literature through texts in English or in English translation from German. Conducted primarily in German. (101-FA; 102-SP) Prerequisite for GER 102: a grade of C or better in GER 101 or consent of the instructor.

- [GER102: Elementary German II \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the German language. Introduction to Germanic cultures, politics, history, and literature through texts in English or in English translation from German. Conducted primarily in German. (101-FA; 102-SP) Prerequisite for GER 102: a grade of C or better in GER 101 or consent of the instructor.
- [GER201: Intermediate German I \(4 hours\)](#)  
Continued practice in comprehension, speaking, reading, and writing. Review of and elaboration in grammatical structures, composition, and vocabulary building serve as aids in the development of conversational ability. Growth in reading skills and cultural enrichment produced through readings on contemporary German life. Conducted in German. (201-FA; 202-SP) Prerequisites: a grade of C or better in GER 102 or consent of the instructor for GER 201; a grade of C or better in GER 201 or equivalent or consent of the instructor for GER 202.
- [GER202: Intermediate German II \(4 hours\)](#)  
Continued practice in comprehension, speaking, reading, and writing. Review of and elaboration in grammatical structures, composition, and vocabulary building serve as aids in the development of conversational ability. Growth in reading skills and cultural enrichment produced through readings on contemporary German life. Conducted in German. (201-FA; 202-SP) Prerequisites: a grade of C or better in GER 102 or consent of the instructor for GER 201; a grade of C or better in GER 201 or equivalent or consent of the instructor for GER 202.
- [GER298: Independent Studies in German \(2 TO 4 hours\)](#)  
Prerequisites: Junior standing and consent of instructor. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP)
- [GER301: Conversation & Composition \(4 hours\)](#)  
General Education H1 and CCD. An advanced German language course, which provides continued practice in conversation and composition with emphasis on new vocabulary. This course includes functional grammar review. Readings and discussions of literary as well as non-literary texts introduce students to more complex topics in German life, history, and culture. Reinforcement of basic phonetic elements and syntax to further refine pronunciation and composition. Conducted in German. (FA) Prerequisites: a grade of C or better in GER 202 or equivalent or consent of the instructor.
- [GER318: Topics in German Culture and Literature \(4 hours\)](#)  
General Education H2. This course surveys specific time periods and/or movements in German cultural history, including art, architecture, music, and literature. Students develop their ideas and improve their written and spoken communication skills through essays, oral reports, and a research paper. May be repeated with change of topic. Conducted in German. (SP) Prerequisites: a grade of C or better in GER 301 or consent of instructor.
- [GER398: Independent Studies in German \(1 TO 4 hours\)](#)  
Prerequisites: Junior standing and consent of instructor. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP)
- [GER401: Advanced Conversation \(2 hours\)](#)  
Guided discussions on a variety of topics enhance vocabulary building. Opportunities for both formal oral presentation and informal conversation promote practice, skill and confidence. Grammar is reinforced through practice centering on a particular voice, tense, and/or theme. Conducted in German. Prerequisites: a grade of C or better in GER 301 or 318 or equivalent or consent of the instructor.
- [GER498: Independent Directed Study \(2 TO 4 hours\)](#)  
Reading in a specific area of German literature, culture, or history. Weekly conferences conducted in German. Eight credits maximum will apply toward the degree. (FA, SP) Prerequisites: Junior standing and consent of instructor. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration.

- [SPA101: Elementary Spanish I \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the Spanish language. Introduction to Hispanic cultures, politics, history, and literature through texts in English or in English translation from Spanish. Weekly out-of-class discussion sections. Conducted primarily in Spanish. (101-FA, 102-FA, SP)
- [SPA102: Elementary Spanish II \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the Spanish language. Introduction to Hispanic cultures, politics, history, and literature through texts in English or in English translation from Spanish. Weekly out-of-class discussion sections. Conducted primarily in Spanish. (101-FA, 102-FA, SP)
- [SPA201: Intermediate Spanish I \(4 hours\)](#)  
Review of basic phonetic elements and syntax as an aid to improvement and expansion of good pronunciation and composition. Introduction to Hispanic cultures. Weekly out-of-class discussion sections. Conducted in Spanish. (SPA201-FA; SPA202-SP) Prerequisites: SPA102 or consent of the instructor.
- [SPA202: Intermediate Spanish II \(4 hours\)](#)  
Review of basic phonetic elements and syntax as an aid to improvement and expansion of good pronunciation and composition. Introduction to Hispanic cultures. Weekly out-of-class discussion sections. Conducted in Spanish. (SPA201-FA; SPA202-SP) Prerequisites: SPA201 or consent of the instructor.
- [SPA290: Spanish for Health and Human Services \(2 hours\)](#)  
Focus on health and human service vocabulary, language skills for professional communication, and cross-cultural awareness in order to communicate effectively, both formally and informally. Students participate in hands-on, experiential learning opportunities in the community. Conducted in Spanish. (SP) Prerequisites: SPA202 or consent of instructor.
- [SPA298: Independent Studies in Spanish \(4 hours\)](#)  
Prerequisites: Junior standing and written consent of instructor required for registration. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP)
- [SPA300: Introduction to Spanish Phonetics and Phonology \(4 hours\)](#)  
This course focuses on the sounds of the Spanish language. Through the study of phonetics (the science that examines sounds) and phonology (the organizational system of sounds), students will improve their pronunciation, learn about and recognize different dialects of the language, understand how the phonic system functions at both contrastive and descriptive levels, and gain an appreciation of the phonological development of the language. Prerequisites: SPA202 or instructor's consent. (FA)
- [SPA301: Conversation and Composition I \(4 hours\)](#)  
General Education H1 and CCD. Practice in conversation and composition with emphasis on new and technical vocabulary. Functional grammar review. Reading, discussion and interpretation of more challenging literary texts. Reinforcement of basic linguistic elements such as phonetics and syntax as an aid to further refinement of the four language skills. Conducted in Spanish. (FA) Prerequisites: SPA202 or consent of instructor.
- [SPA302: Conversation & Composition II \(4 hours\)](#)  
This course strengthens skills already learned in Spanish courses by integrating elements of print journalism interviewing, writing and editing. It also expands the cultural knowledge of the students by focusing on their writing on themes of cultural relevance. Conducted in Spanish. (SP) Prerequisite: SPA301 or consent of instructor.
- [SPA305: Spanish for the Professions \(4 hours\)](#)  
This course introduces students to the vocabulary and discourse appropriate to the professions. It develops communicative skills for professional situations (speaking, listening, comprehension, reading, writing, translation, interpretation, and computer skills) and provides cultural and cross-

cultural awareness. Students prepare oral and written reports. Conducted in Spanish. Not to be taken in conjunction with SPA325. (SP) Prerequisites: SPA202.

- [SPA307: Latin American Civilization \(4 hours\)](#)  
General Education H2 and CCD. Lectures and discussion on Latin American cultural history and trends, particularly as they relate to the arts, political thought, and economics. Conducted in Spanish. (FA, odd years) Prerequisites: SPA202.
- [SPA308: Hispanic Civilization \(4 hours\)](#)  
General Education H2 and CCD. Lectures and discussion on Hispanic cultural trends, particularly as they relate to the arts, political thought, and economic conditions. Topics will focus on social movements in Spain or Spain's impact on Latin America, the Caribbean, and the United States. Conducted in Spanish. (FA, even years) Prerequisites: SPA202.
- [SPA325: Spanish for the Professions \(4 hours\)](#)  
This upper-intermediate level course will allow students to explore the diverse career possibilities available to those proficient in Spanish. Building upon previous knowledge of the Spanish language, students will expand their communication, reading, videos, oral presentations, written reports, projects and a variety of interactive activities will expand cross-cultural awareness as well as increase familiarity with the language. During spring break, students will travel to Lima, Peru, to complete volunteer work related to their field(s) of interest. Both pre- and post-reflection will compliment reflection completed during the immersion experience. Not to be taken in conjunction with SPA305. Prerequisite SPA202.
- [SPA398: Independent Studies in Spanish \(2 TO 4 hours\)](#)  
Prerequisites: Junior standing and written consent of instructor required for registration. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP)
- [SPA401: Advanced Conversation \(2 hours\)](#)  
A panorama of customs, life styles, attitudes, and cultural achievements of the Spanish speaking people today. Emphasis on informal conversation with individual interests and projects encouraged. Includes oral and written reports as well as grammar and syntax review. Conducted in Spanish. (SP) Prerequisite: SPA301 or 305 or 307 or 308 or 325 or consent of instructor. (May be taken twice.)
- [SPA480: Internship/Capstone Internship in Spanish \(2 TO 4 hours\)](#)  
Applications of foreign language and culture using language skills in professional settings. This course may also serve as a culminating capstone experience. Facilitates transition from university to career or graduate school through the creation of a resume and portfolio, as well as experience with employment interviews and/or submission of application to graduate school. S/U graded. (FA, SP) Prerequisites: SPA307 or 308, 318 and senior standing.
- [SPA498: Indep Directed/Capstone Study \(2 TO 4 hours\)](#)  
Intensive reading in a specific area of Spanish or Spanish-American literature or culture. Weekly conference conducted in Spanish. Eight credits maximum may apply toward degree. This course may also serve as a culminating capstone experience for seniors. Facilitates transition from university to career or graduate school through the creation of a resume and portfolio, as well as experience with employment interviews and/or submission of application to graduate school. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP) Prerequisites: SPA307 or 308, 318.

## Music Therapy

- [MTY101: Introduction to Music Therapy \(2 hours\)](#)  
This course provides an introduction to the field of Music Therapy encompassing theoretical and historical review, clinical applications, professional requirements, case studies and research and development, and implications for future.
- [MTY180: Music Therapy Practicum \(1 or 2 hours\)](#)  
This course is designed to provide students continued in-depth exposure and training in the culture and techniques of music therapy. Through various lectures, presentations, simulations, and instructor-directed actual clinical experiences, the students will start to learn and practice the process of assessment and application of music therapy procedures. Section A is 1 credit, section B is 2 credits. Prerequisites: MTY101 (FA, SP)
- [MTY251: Psychology of Music \(3 hours\)](#)  
This course examines the cognitive, social, and biological basis of our ability to perceive, remember, appreciate and produce music. We will examine selected empirical studies and review papers encompassing the evolutionary, developmental, social/personality, and cognitive neuroscience approaches to understanding musical practice. This course also includes lab assignments involving listening exercises, data collection and analyses. Prerequisites: PSY101, CMP112, MUS111. (SP)
- [MTY301: Music Therapy Foundations and Principles \(2 hours\)](#)  
This course will provide a foundation for the student to build a conceptual framework for developing his or her own approach to the use of music as therapy, a sequential understanding of the process of music therapy intervention, and a functional understanding of the dynamics of therapist-client interaction. Prerequisites: MTY101. (Alternate FA)
- [MTY304: Influence of Music on Behavior \(3 hours\)](#)  
This course develops an objective, scientifically sound explanation for the therapeutic effects of music regularly observed by music therapists in professional practice. Students will learn research terminology and basic compositional format used in writing research literature. They will develop knowledge of the purpose, prevailing methodology, data analysis techniques, and ways to interpret results reported in published historical, quantitative and qualitative research. Prerequisites: MTY101, MTY251. (SP)
- [MTY382: Music Therapy Activities for Specific Populations \(2 hours\)](#)  
Learn how to select, adapt, and use musical instruments and other equipment to elicit participation from children and adult clients including those having disabilities due to aging. Prerequisites: MTY101, MTY180. (SP)
- [MTY401: Music Therapy Procedures and Applications \(2 hours\)](#)  
Students will learn how to apply the various assessment procedures, planning processes, accepted and emerging treatment techniques, evaluation instruments, and reporting protocols used by music therapists who treat infants, children, adults, and geriatric clients who exhibit a variety of physical and mental disorders. Prerequisites: MTY101, MTY301, and at least 5 credits of MTY180. (FA)
- [MTY480: Music Therapy Internship \(12 hours\)](#)  
The Music Therapy Internship is the culminating, in-depth clinical training at the professional level at an AMTA-approved site under continuous, qualified supervision by a credentialed music therapist. Prerequisites: Must be enrolled in the Music Therapy Program and in good standing at the senior level. ANP130, PSY101, PSY201, PSY221, CMP112, and at least 7 credits of MTY180. Student must have passed Piano Proficiency, Guitar Proficiency, and Voice Proficiency exams. (FA, SP)

## Music

- [MUS105: Class Piano I \(1 hours\)](#)  
Fundamental piano skills to establish basic piano proficiency. May be taken a maximum of four semesters. (Does not count toward major or minor.) \*106, 107 and 108 need consent of instructor. (105 & 107-FA; 106 & 108-SP)
- [MUS106: Class Piano II \(1 hours\)](#)  
Fundamental piano skills to establish basic piano proficiency. May be taken a maximum of four semesters. (Does not count toward major or minor.) \*106, 107 and 108 need consent of instructor. (105 & 107-FA; 106 & 108-SP)
- [MUS107: Class Piano III \(1 hours\)](#)  
Fundamental piano skills to establish basic piano proficiency. May be taken a maximum of four semesters. (Does not count toward major or minor.) \*106, 107 and 108 need consent of instructor. (105 & 107-FA; 106 & 108-SP)
- [MUS108: Class Piano IV \(1 hours\)](#)  
Fundamental piano skills to establish basic piano proficiency. May be taken a maximum of four semesters. (Does not count toward major or minor.) \*106, 107 and 108 need consent of instructor. (105 & 107-FA; 106 & 108-SP)
- [MUS111: Music Theory I \(3 hours\)](#)  
Training in the fundamental materials of music: pitch notation, common clefs, major and minor scales, common-practice rhythm and meters, intervals, simple diatonic melody, triads, and seventh chords. (FA)
- [MUS112: Music Theory II \(3 hours\)](#)  
Study of basic part-writing, harmonic progression, chord identification, figured bass, and Roman numeral analysis of diatonic common-practice music. (SP) Prerequisite: MUS 111.
- [MUS113: Musicianship I \(1 hours\)](#)  
These courses complement the Music Theory sequence: 113 corresponds to MUS 111; 114 corresponds to MUS 112; 213 corresponds to MUS 211; and 214 corresponds to MUS 212. The goal of these courses is to develop the aural skills necessary for success in the performing or teaching fields of music. The writing of dictated rhythms, melodies, and harmonies, and the sight-singing of rhythms and melodies are the central activities of each course. Prerequisites and corequisites: the corresponding Music Theory course is a corequisite or prerequisite for each Aural Skills course, and the Aural Skills courses must be taken in numerical order. Co-requisite: Music Theory I, II, III or IV. (FA)
- [MUS114: Musicianship II \(1 hours\)](#)  
These courses complement the Music Theory sequence: 113 corresponds to MUS 111; 114 corresponds to MUS 112; 213 corresponds to MUS 211; and 214 corresponds to MUS 212. The goal of these courses is to develop the aural skills necessary for success in the performing or teaching fields of music. The writing of dictated rhythms, melodies, and harmonies, and the sight-singing of rhythms and melodies are the central activities of each course. Prerequisites and corequisites: the corresponding Music Theory course is a corequisite or prerequisite for each Aural Skills course, and the Aural Skills courses must be taken in numerical order. Co-requisite: Music Theory I, II, III or IV. (SP)
- [MUS117: Class Voice \(1 hours\)](#)  
Class lessons to learn basic vocal skills. May be taken a maximum of two semesters. (FA, even years)
- [MUS151: History of Jazz \(4 hours\)](#)  
General Education F1. Origins and evolution of jazz to the present, emphasizing various performance styles and improvisational techniques.
- [MUS156: Listening to Classical Music \(4 hours\)](#)  
General Education F1. This course is intended as an introductory course and focuses on the development of perceptive listening skills and a broad understanding of Western concert literature.



- [MUS157: Beethoven \(4 hours\)](#)  
Designed for the general student, the course examines the life, stylistic development and importance of Beethoven within the context of the times in which he lived. (SP, odd years)
- [MUS158: Rock Music - Roots and History \(4 hours\)](#)  
General Education F1. Designed for the general student, the objective of this course is to understand the origins, development, and significance of one of the most popular musical forms in the modern world.
- [MUS159: Electronic Music \(4 hours\)](#)  
General Education F1. Students will learn the techniques and concepts of digital audio production with computers, including recording, editing, and song writing, culminating in the creation of an original professional-quality radio commercial.
- [MUS161: Violin \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS162: Viola \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS163: Cello \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS164: Bass \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS165: Guitar \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS166: Harp \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS167: Piano \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS168: Organ \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS169: Voice \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS170: Flute \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS171: Oboe \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS172: Clarinet \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS173: Bassoon \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS174: Saxophone \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS175: Horn \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS176: Trumpet \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS177: Trombone \(1 TO 2 hours\)](#)  
(FA, SP)



- [MUS178: Tuba \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS179: Percussion \(1 TO 2 hours\)](#)  
(FA, SP)
- [MUS181: Class Guitar \(1 hours\)](#)  
This is the level of study for the absolute beginner as well as the self-taught guitarist who wishes to re-examine the fundamentals of guitar technique. (FA)
- [MUS182: Introduction to Rhythmic Movement \(1 hours\)](#)  
This introductory, experiential course is designed to provide students with fundamental knowledge of and an appreciation for the role of movement and body awareness. Basic movement models, concepts and terminology are introduced and applied. Contemporary cross-cultural rhythmic movement methods are presented and experienced. (SP)
- [MUS183: Men's Chorus \(1 hours\)](#)  
Carroll's only all-male vocal ensemble, Men's Chorus builds vocal technique, musicianship, and community through the rehearsal and performance of great choral and vocal literature. (FA, SP)
- [MUS185: Concert Choir \(1 hours\)](#)  
General Education F1. Open to students in all majors, the Concert Choir is a large, auditioned mixed ensemble that performs regularly throughout the year in the Carroll Choir's concert season, including the annual performances of Christmas at Carroll, and appears at university ceremonies such as Convocation and Baccalaureate. Prerequisite: Placement audition and approval of conductor. (FA, SP)
- [MUS186: Chamber Singers \(1 hours\)](#)  
The premier vocal ensemble at Carroll, Chamber Singers is comprised of selected members of the Concert Choir and performs repertoire that focuses on more virtuosic vocal chamber music. Prerequisite: Placement audition and approval of conductor. (FA, SP)
- [MUS187: Women's Choir \(1 hours\)](#)  
Prerequisite: Placement audition and approval of conductor. (FA, SP)
- [MUS188: Wind Symphony \(1 hours\)](#)  
General Education F1. The Wind Symphony performs the finest of traditional as well as contemporary wind literature, and has been involved in the commissioning of several original works from esteemed composers. Prerequisite: Placement audition and approval of conductor. (FA, SP)
- [MUS189: Jazz Lab \(1 hours\)](#)  
Jazz Lab explores jazz style and improvisation through group listening, improvisation exercises, and small group playing in a variety of combinations. All instruments (including voice) are welcome, and the repertoire ranges from New Orleans jazz to straight-ahead swing, Latin jazz, and contemporary funk and rock. Prerequisite: Placement audition and approval of conductor. (FA, SP)
- [MUS190: Chamber Music \(1 hours\)](#)  
Section A-Brass, Section B-Strings, Section C-Flute Choir, Section D-Woodwinds, Section E-Piano, Section F-Handbell Choir. Prerequisite: Placement audition and approval of conductor. Prerequisite: Permission of conductor. (FA, SP)
- [MUS191: Chamber Orchestra \(1 hours\)](#)  
The Chamber Orchestra is comprised mostly of strings and complemented by woodwinds, brass, and timpani, as needed. Musicians come together to learn and properly perform the classical chamber orchestra repertoire. Prerequisite: placement audition and approval of conductor.
- [MUS192: The Carroll Chorale \(1 hours\)](#)  
Prerequisite: Permission of the conductor. (FA, SP)
- [MUS211: Music Theory III \(3 hours\)](#)

A continuation of MUS 112, this course presents chromatic harmony with particular emphasis on how it is used by composers in selected music literature. (FA) Prerequisite: MUS 112. Prerequisite: MUS 112 and passing competency exam.

- [MUS212: Music Theory IV \(3 hours\)](#)  
Study of advanced chromatic harmony, post-tonal musical analysis, and large scale formal organization of solo, chamber, and orchestral works by common practice composers. (SP) Prerequisites: MUS 211 or consent of instructor.
- [MUS213: Musicianship III \(1 hours\)](#)  
These courses complement the Music Theory sequence: 113 corresponds to MUS 111; 114 corresponds to MUS 112; 213 corresponds to MUS 211; and 214 corresponds to MUS 212. The goal of these courses is to develop the aural skills necessary for success in the performing or teaching fields of music. The writing of dictated rhythms, melodies, and harmonies, and the sight-singing of rhythms and melodies are the central activities of each course. Prerequisites and corequisites: the corresponding Music Theory course is a corequisite or prerequisite for each Aural Skills course, and the Aural Skills courses must be taken in numerical order. Co-requisite: Music Theory I, II, III or IV.
- [MUS214: Musicianship IV \(1 hours\)](#)  
These courses complement the Music Theory sequence: 113 corresponds to MUS 111; 114 corresponds to MUS 112; 213 corresponds to MUS 211; and 214 corresponds to MUS 212. The goal of these courses is to develop the aural skills necessary for success in the performing or teaching fields of music. The writing of dictated rhythms, melodies, and harmonies, and the sight-singing of rhythms and melodies are the central activities of each course. Prerequisites and corequisites: the corresponding Music Theory course is a corequisite or prerequisite for each Aural Skills course, and the Aural Skills courses must be taken in numerical order. Co-requisite: Music Theory I, II, III or IV.
- [MUS215: Songwriting and Improvisation \(1 hours\)](#)  
This course instructs students in the technical and artistic aspects of develop original melodies, accompaniments, and short pieces extemporaneously in a variety of moods and styles, vocally and instrumentally. Students will learn to write lyrics, set the text to music, and developing accompaniments for a variety of ensembles, technical levels, styles, and moods. Prerequisites: MUS211, MUS212. Co-requisite: MUS214. (SP)
- [MUS220: Functional Guitar \(1 hours\)](#)  
This courses teaches the practical skills of functional guitar, the ability to accompany basic folk tunes and simple familiar melodies without written music in a variety of keys, and to create musically appropriate and fluent accompaniments to songs notated in lead sheet notation. Prerequisites: MUS111, satisfactory evaluation in Guitar Proficiency Exam. (SP)
- [MUS251: String Methods \(1 hours\)](#)  
Development of basic performance skills, maintenance methods, and materials for the teaching of strings in the public schools. Violin, viola, cello, and bass will be covered. (Every third year beginning in FA10)
- [MUS252: Percussion Methods \(1 hours\)](#)  
Development of basic performance skills, maintenance methods, and materials for the teaching of percussion in the public schools. Snare and bass drums, timpani, drum set, all mallet instruments and auxiliary percussion will be covered. (Every third year beginning in SP11)
- [MUS253: Woodwind Methods \(1 hours\)](#)  
This course is designed to provide students with the skills necessary to teach the woodwind instruments in large and small group settings in the public schools. Students will learn to perform on each of the major woodwind instruments. Instruments will be provided for students' use during the course. (FA, every third year)
- [MUS255: Brass Methods \(1 hours\)](#)  
This two-course sequence is designed to provide students with the skills necessary to teach the brass instruments in large and small group settings in the public schools. Students will learn to

perform on each of the major brass instruments. Instruments will be provided for students' use during the course. (FA, every third year)

- [MUS291: Topics in Music \(2 TO 4 hours\)](#)
- [MUS298: Independent Study in Music \(1 TO 4 hours\)](#)  
Prerequisite: Junior standing, approval of the divisional dean and consent of instructor.
- [MUS303: Conducting I \(2 hours\)](#)  
Fundamentals of conducting including baton technique, score reading and rehearsal procedures. (SP, even years) Prerequisite: MUS 211 and MUS 213.
- [MUS304: Conducting II \(2 hours\)](#)  
This course continues topics from MUS303. (FA, even years) Prerequisite: MUS 303.
- [MUS307: Practical Keyboard Harmony \(1 hours\)](#)  
Practical keyboard facility, including harmonic progressions, modulation, figured bass realization, transposition and score reading. (FA) Prerequisite: MUS 211.
- [MUS311: Music History I - Early Music through the Baroque Period \(4 hours\)](#)  
General Education GE2. Surveys Western music from Antiquity through the Baroque period, with particular emphasis on music literature and identification of stylistic characteristics of each period. (FA, even years) Ability to read music required.
- [MUS312: Music History II - The Classic and Romantic Periods \(4 hours\)](#)  
General Education GE2. Designed for the music major as well as the general student, this course traces the development of Western music from the Classical period through the Romantic period (1750-1900). Ability to read music required. (SP, odd years) Prerequisite: ENG 170.
- [MUS313: Music History III - The 20th Century \(2 hours\)](#)  
This course continues with the study of music history begun in MUS 311 and 312, concentrating on 20th century style characteristics, major composers, 'isms,' forms, techniques, terminology, and actual music from 1900 until the present. Study of the social, philosophical, and political background against which all this music unfolded will also be a focus of the course. (FA, odd years) Ability to read music required.
- [MUS323: Diction - German and English \(1 hours\)](#)  
Develops a basic understanding of the International Phonetic Alphabet as applied to the mastery of foreign language pronunciation for singing. 323 is English and German diction and is a prerequisite for MUS 324; 324 is French and Italian diction. (323-FA, even years; 324-SP, odd years)
- [MUS324: Diction - French and Italian \(1 hours\)](#)  
Develops a basic understanding of the International Phonetic Alphabet as applied to the mastery of foreign language pronunciation for singing. 323 is English and German diction and is a prerequisite for MUS 324; 324 is French and Italian diction. (323-FA, even years; 324-SP, odd years)
- [MUS350: Materials/Techniques Elem Music \(2 hours\)](#)  
Fundamental music skills, methods and materials for the elementary classroom teacher. (FA, SP, SU)
- [MUS353: Choral Methods and Literature \(4 hours\)](#)  
Organization and administration of choral music curricula. Observation and participation in the classroom. Investigation of historical and contemporary philosophies of choral music education. (FA, odd years) Prerequisite: Admission to the Teacher Education Program.
- [MUS354: General Music in the Schools \(2 hours\)](#)  
Organization and administration of general music curricula in grades K-12. Survey and application of European and American trends in teaching methodology and materials. Observation and participation in the classroom. (SP, odd years) Prerequisite: Admission to the Teacher Education Program.

- [MUS355: Instrumental Methods \(4 hours\)](#)  
Explores methods and materials used in teaching instrumental music in grades K-12. Observation and participation in the classroom. (FA, odd years) Prerequisite: Admission to the Teacher Education Program.
- [MUS357: Choral Literature & Performance Practice \(2 hours\)](#)  
This course provides students with broad knowledge of representative repertoire for all levels and sizes of ensembles from the 5th-grade choir to the professional ensemble. The course will introduce students to a viable philosophy of music and establish why the choice of quality repertoire in educational settings is of critical importance to the success of music teaching. Traditional interpretations of core repertoire will be studied through various recordings. (SP, odd years) Prerequisite: MUS 211.
- [MUS359: Orff/Kodaly Methods \(4 hours\)](#)  
This is a course designed to increase each student's knowledge and understanding of music teaching materials, methodologies, and techniques of teaching general music at the elementary school level using the methodologies of Orff and Kodaly. Systems of teaching developed by others, such as Dalcroze, will be studied and put into practice as well. (FA, odd years) Prerequisite: MUS 354.
- [MUS366: Voice Pedagogy \(2 hours\)](#)  
The study of voice production and how to recognize and solve vocal problems. Students have the opportunity to teach voice lessons under the guidance of the instructor. (FA, odd years)
- [MUS391: Topics in Music \(2 TO 4 hours\)](#)
- [MUS398: Independent Study in Music \(1 TO 4 hours\)](#)  
Prerequisite: Junior standing, approval of the divisional dean and consent of instructor.
- [MUS430: Vocal Literature \(2 hours\)](#)  
A study of literature available for the voice, including the art song and oratorio and operatic literature beginning with the Baroque period. (SP, even years) Prerequisite: MUS 211.
- [MUS470: Junior Recital](#)  
This course is taken in conjunction with applied lessons in the semester in which the student is presenting a junior (470) or senior (471) recital, resulting in an applied lesson worth three credits for those semesters. Additional rehearsals outside of regular lessons are required. An applied music fee will be charged in addition to full tuition for this course.
- [MUS471: Senior Recital](#)  
This course is taken in conjunction with applied lessons in the semester in which the student is presenting a junior (470) or senior (471) recital, resulting in an applied lesson worth three credits for those semesters. Additional rehearsals outside of regular lessons are required. An applied music fee will be charged in addition to full tuition for this course.
- [MUS499: Music Capstone \(2 hours\)](#)  
During the semester in which the senior recital is presented, students will enroll in 499 in lieu of the regular Applied Music number. Students will work with the applied teacher in the presentation of a public recital. This will include research and the development of the ability to communicate clearly in written program notes. Further, demonstration of a high level of mastery of the voice/instrument is expected. Corequisite: MUS 471. Prerequisite: senior standing. Regular applied music fee will be charged. Periodic group meetings with all capstone students are required.

#### New Cultural Experiences Program

- [NCE207: Practicing Intercultural Communication in Thailand \(4 hours\)](#)  
Magical, mystical, modern Thailand. Studying and visiting Thailand offers a unique opportunity—you will come to understand your own culture in a new way through your journey through this beautiful and fascinating land. Intercultural communication is influenced by societal norms and values, history, arts, and the media. We will study intercultural communication in Bangkok, Chiang Mai, the Elephant Nature Reserve, and Phuket. This class may be substituted for COM207: Intercultural Communication requirements. Students who have already taken COM207 may also apply and count the class as an elective or as a 300-level Communication class. This class may count as a student's CCE and CCD requirement in the General Education program. Offered FA Semester every three years with January travel (next offering in FA16)
- [NCE302: Russia & Central Asia - History, Environment, and Geography Halfway Around the World \(4 hours\)](#)  
This course is designed to provide students the opportunity to study and have firsthand experience in Russia and Central Asia. Students will have a better understanding of the region's culture, history, geography and environment. We visit St. Petersburg and Moscow in Russia and Kokshetau, Kazakstan and their surrounding regions. We study the interrelationship of historical events, cultural characteristics and environmental quality. We will be working with St. Petersburg University, Moscow State University, Kokshetau State University, the Peace Corps, and the Waukesha Area Sister City Association. (SP odd years, travel in summer)
- [NCE305: Reefs, Rainforests and Ruins of Belize \(4 hours\)](#)  
This course focuses on tropical reef biology and rainforest ecology. While in Belize, students explore the world's second largest barrier reef and trek through a tropical rainforest to observe bullet trees, howler monkeys and exotic birds. While at these sites, students design and perform investigative experiments to gain an understanding of the scientific method. In addition, students experience the ancient Mayan civilization visiting the ruins at Lamanai, Caracol and Tikal. (FA odd years, travel in January)
- [NCE309: Germany, Poland and Hungary \(4 hours\)](#)  
This course examines personal and communal treatment of 'the other' in Eastern Europe, where recent history has left not only deep scars, but also a strong commitment to social justice and tolerance. Guided by visits to historical sites, guest speakers, one-on-one conversations and individual observations, students examine how questions of tolerance and intolerance have shaped and still inform Eastern European culture and society. (SP, Travel in May)
- [NCE312: China - Its Modern Reality \(4 hours\)](#)  
This course examines Chinese culture with an emphasis on the roles China currently plays on the international stage. Specific attention is given to China's reform that has brought about great changes taking place in its economy and the social lives of the people. Important current issues in semi-capitalism, U.S. business outsourcing and internationalism in education will be stressed. (SP even years, travel in May)
- [NCE313: Revising Italy - Travel Writing in the Italian Tradition \(4 hours\)](#)  
In this course, students will spend the semester exploring readings in the tradition of the Italian travel narrative, including classic works by authors such as Twain and James, as well as more contemporary examples. Students will work to practice their own skills in writing travel essays, and at the completion of the semester-study portion of the course, we will travel to Italy for approximately three weeks and explore several distinct regions of the country (city, country and sea) and reflect on how our experiences there have been shaped by the major authors we have read during the semester. At the completion of the off-campus portion of the course, students will produce their own major travel essay. (SP even years, travel in May)
- [NCE315: Australia - The Land and the People Down Under \(4 hours\)](#)  
This course explores the geographic and demographic forces that have shaped Australia by focusing on the amazing geographic diversity and how the peoples of Australia have left their mark on contemporary culture. The course will review the economic, political, religious, environmental and social realities of Australia and its neighboring Oceanic Islands. (SP even years, travel in May-June)

- [NCE316: Multicultural South Africa \(4 hours\)](#)  
This course builds on the material covered in the prerequisite course. A truly interdisciplinary experience, the course incorporates discussions of politics, history, economics and language in an attempt to understand the nature of power, particularly as it is exercised within the context of racial and ethnic oppression of indigenous peoples. (SP, Travel in May)
- [NCE317: The Cultural and Environmental Geography of Alaska \(4 hours\)](#)  
The purpose of this academic field study is to explore the environmental resources and cultural heritage of America's final frontier. Spring coursework will ground students in an understanding of Alaska's history, physical landscape, Native American heritage, and current natural resource base. The three-week May itinerary will include cultural activities in Sitka, Fairbanks and Anchorage involving Tlingit, Athabascan and Inuit Indian groups, plus environmental field investigations that include Denali National Park and the historic Yukon mining region. (SP odd years, travel in May)
- [NCE318: Mexico - Culture, Health and Human Services \(4 hours\)](#)  
This course has been designed for students who are interested in careers where they will work in health or human service settings that serve Hispanic populations. Using Mexico as a central focus, students will gain an understanding of Mexican and Mexican-American culture and customs. In May students will study in Cuernavaca, Mexico, where they will live with families, participate in seminars related to health, social services, migration, medical anthropology and politics. Intensive language classes are optional for those with near-native fluency. (FA even years, travel in January)
- [NCE319: Art and Culture of the Ancient and Modern Maya \(4 hours\)](#)  
In this course, students will spend the first half of the spring semester at Carroll studying ancient Mayan history, culture and art/architecture. Over spring break, students will spend 10 days in Mexico exploring the world they have studied. Upon return to Carroll, the second half of the semester will involve developing written and artistic projects that reflect what they have learned on campus and abroad. (SP even years, travel over Spring Break)
- [NCE320: Paris - Art and Culture \(4 hours\)](#)  
This course traces the civilization and culture of France through the centuries, beginning with the Gallo-Roman times and progressing to the present. While in Paris, students will experience first-hand the wealth of art and architecture which Paris has to offer. Students will be introduced to various artistic movements born in France and will investigate how history is reflected by the many monuments in the City of Light. Previous knowledge of French is not required. (SP, travel in May)
- [NCE321: Contemporary Germany - Its Culture, Economy, and Politics \(4 hours\)](#)  
This course studies contemporary Germany, its culture and politics. Students will then travel to Germany to develop a first-hand understanding of what they have learned in the classroom. Home base will be in Marburg with travel to Berlin, Cologne, Frankfurt, Gottingen and other locations. (SP even years, travel in May/June)
- [NCE323: Travel Journals \(4 hours\)](#)  
Writing and drawing both require refined observational skills. This course seeks to develop these skills in an interrelated, experiential workshop format, partially taught off campus. Using readings taken from the long tradition of Italian travel writing, the course will seek to uncover the way writers influence our perceptions of place and specifically of Italian culture. The travel to Italy provides an opportunity to practice observational and expressive skills, and an opportunity to develop a new way of being in the world. The process of keeping a travel journal as well as the final essay about this experience will reflect this new awareness of place and of self. Travel to Italy in May if there is enough interest, as additional section might go to Sicily over Spring Break. In FA semesters, this course will focus on Argentina, with travel in January.
- [NCE324: Identity, Culture and the European Union \(4 hours\)](#)
- [NCE325: Politics and Theatre in the UK and USA \(4 hours\)](#)  
In depth look into the interrelationship of Politics and Theatre in the dynamic defining and redefining of the British culture. Students will explore plays and politics from three distinct periods: Elizabethan, Victorian, and Modern England and counterpoint them with study of American responses and innovations during the same eras. Travel to London during summer will

include visits to the New Globe Theatre, the National Theatre, Stratford on Avon, Parliament, the Victoria & Albert Museum, and the British Imperial War Rooms. Travel to Chicago to explore US correlations will take place during the semester. (SP even years, summer travel)

○ NCE341: Health Care in Guatemala (4 hours)

This course provides an introduction to the field of international health, using Guatemala as a focus of study. After an overview of the geography, history, and culture of Guatemala, there will be an emphasis on understanding factors that impact illness and injury, data assessment, and the development of meaningful solutions to identified problems. The semester long course will serve as preparation for a practicum experience in Guatemala. During the two week immersion in Guatemala, students will tour health care facilities in eastern Guatemala, Mayan, and colonial historical sites, and cultural points of interest. Students will also assist with mobile clinics in several villages and present a health education lecture. (SP) Prerequisites: Junior standing, NRS 233.



## Nursing

- [NRS100: Health Care and Nursing \(4 hours\)](#)

This is the first course in the nursing major. It is designed to acquaint the student with three broad areas that encompass the professional nursing role. Students acquire a foundational ability to use appropriate professional language including the terms and abbreviations that are necessary for professional communication. The process of nursing is studied from the context in which the program is offered, including consideration of global, regional and institutional needs and expectations of the practicing nursing professional. (Fa, S) Prerequisite: Admission to the nursing program or approval by nursing faculty.
- [NRS100L: Health Care and Nursing Laboratory](#)

Laboratory component for NRS100.
- [NRS230: Health Assessment \(4 hours\)](#)

The foundational concepts, scientific basis and theoretical constructs of effective therapeutic communication, interviewing, health history, and physical assessment across the life span are presented. Laboratory practice is designed to produce the cognitive and psychomotor skills necessary to conduct a systematic and accurate assessment of an individual's health status. The ability to collect, organize, document and analyze health history and physical assessment data, as well as the ability to recognize and promote adaptive human responses are the expected outcomes of this course. (FA, SP) Prerequisite: Admission to the Nursing Program, ANP130, Pre or Co-requisite: NRS 100.
- [NRS230L: Health Assessment Laboratory](#)

Laboratory component for NRS230.
- [NRS233: Foundations of Nursing Practice \(4 hours\)](#)

This course is an introduction to the scientific basis and theoretical foundations of professional nursing practice. Nursing theory is incorporated with nursing process to enable the student to identify basic health responses and intervene appropriately at the foundational level of care. The student learns to use a systematic framework to implement the nursing process and begins to recognize and apply nursing research to practice. A continued development of an attitude of inquiry is expected. (FA, SP) Prerequisite: ANP130, ANP140, NRS230. Concurrent with NRS 234.
- [NRS234: Foundations - Practicum \(2 hours\)](#)

This course focuses on the application and integration of the nursing process to promote physical wellness. Simulated and actual client-care experiences provide an opportunity for student development and practice in the roles of professional nursing that assist the individual to regain or maintain an optimal health state. Therapeutic interventions related to fundamental needs across the life span are addressed and a basic skill level is expected as an outcome of the course. S/U graded. (FA, SP) Prerequisite: ANP130, ANP140, NRS230. Concurrent with NRS233.
- [NRS236: Human Pathophysiologic Responses \(4 hours\)](#)

This course is focused on the alterations in cell, tissue and system mechanisms that manifest as health problems throughout the life span and prevent or limit individuals from making adaptive responses. Although the focus of the course is on the systemic pathophysiology of the individual, the response of the family are acknowledged as inseparable from the health state of a family member. (SP) Prerequisite: ANP130, ANP140, CHE101, CHE102.
- [NRS300: Critical Inquiry in Nursing Research \(2 hours\)](#)

This course examines the concepts and the process of research. A systematic and critical inquiry into published nursing research and an understanding of its practice application (s) provide the course emphasis. (FA, SP) Prerequisite: Admission to the nursing program, NRS233, NRS236, CMP112.
- [NRS300H: Critical Inquiry in Nursing Research Honors \(2 hours\)](#)

NRS300H is an honors program course emphasizing critical reading, critical analysis, and effective writing in the context of professional nursing. Concepts and processes of research that undergird evidence-based practice are examined. Students gain essential knowledge and experience in the search of electronic databases; the retrieval, appraisal, and synthesis of empirical evidence; and the development and submission of a professional manuscript for publication. Prerequisites:



Admission to the Nursing Program, acceptance in the CU Honors Program, NRS233, NRS236, CMP112. (SP only)

- [NRS310: Mental Health Nursing Care \(3 hours\)](#)  
This course focuses upon the theoretical principles of psychiatric/mental health nursing and on practical foundations for assessing, planning, intervening, and evaluating within psychiatric/mental health situations to promote health. The course examines measures for identifying, supporting and fostering the abilities of individuals, families, groups, and communities to cope and assist mentally unhealthy individuals to higher levels of function and quality of life. (FA) Prerequisites: NRS233, NRS234, NRS236, PSY221.
- [NRS312: Family Centered Obstetric Nursing Care \(2 hours\)](#)  
This course focuses on the specialized health care needs of the childbearing family. The health response of the family unit is emphasized as essential to the promotion and maintenance of health of mother and child. Students develop the necessary knowledge base and learn the importance of collaboration with others of the health care delivery team to provide care and teaching for pregnancy, delivery, and newborn nursing. (FA, SP). Prerequisites: NRS233, 234, 236, BIO 212. Pre-requisite or Co-requisite: PSY221. Do not take concurrently with NRS 320.
- [NRS316: Introduction to Medical Surgical Nursing \(4 hours\)](#)  
This course is designed to provide the student with an understanding of the effects of selected physiologic problems on adults in inpatient care settings and the relevant nursing interventions to care for those problems. The content explores ways to promote physical and emotional health in the ill individual, across the adult lifespan, through a partnership with the patient and the patient's support system. (SP). Prerequisites: NRS233, 234, 236, 310, HSC300. Pre-requisite or Co-requisite: NRS300. Concurrent with 317.
- [NRS317: Medical Surgical Nursing Practicum \(5 hours\)](#)  
This course is designed to provide the student with an understanding of the effects of selected physiologic problems on adults in inpatient care settings and the relevant nursing interventions to care for those problems. The content explores ways to promote physical and emotional health in the ill individual, across the adult lifespan, through a partnership with the patient and the patient's support system. (FA, SP). Prerequisites: NRS233, 234, 236, 310, HSC300. Concurrent with 316.
- [NRS320: Family Centered Pediatric Nursing Care \(2 hours\)](#)  
The course focuses on the specialized health care needs of the child in the family. The course provides the necessary know ledge base to maintain optimal health in the pediatric population through developmentally and culturally competent care of the acute and chronic illness and through the promotion of wellness behaviors in the child and family. (FA, SP). Prerequisites: NRS233, 234, 236, BIO212. Pre-requisite or Co-requisite: PSY221. Do not enroll concurrently with NRS312.
- [NRS391: Special Topics in Nursing \(2-4 hours\)](#)
- [NRS415: Community Health Practicum \(2 hours\)](#)  
This course is designed to provide the nursing student with opportunities to apply evidence and theoretical principles of community and public health nursing in the clinical setting. Care is focused on health promotion and disease prevention in communities, populations, families, and individuals in a variety of community settings. Pre-requisites: NRS300, 312, 316, 317, 320. Concurrent with NRS416. (FA course)
- [NRS416: Community Health Nursing Care \(3 hours\)](#)  
This course provides a body of knowledge that allows the student to view the community as a complex system of forces. Public health and community nursing strategies will be defined and integrated to assess overall health of populations and communities. Students focus on the community as client, and learn to assess and analyze data from public health sources in order to plan and implement community nursing care utilizing primary, secondary, and tertiary prevention strategies. Prerequisites: NRS300, 310, 312, 316, 317, 320. Concurrent with NRS415. (FA only)
- [NRS417: Advanced Medical Surgical Nursing \(3 hours\)](#)  
This course is designed to provide the student with an understanding of the effects of multiple diagnoses on adults in various clinical contexts (e.g. ER, ICU, sub-acute, community). Learners

will gain knowledge and then are capable of assessment and management of patients with complex problems. The content explores ways to prioritize problems and interventions, use practice guidelines and outcome indicators in planning and implementing nursing care to ill individuals across the adult lifespan. Integrated in all modules is discussion related to ethical issues, cultural awareness and diversity along with supporting theories and models. Prerequisites: NRS310, 316, 317. Concurrent with NRS419. (FA only)

○ [NRS419: Advanced Medical Surgical Practicum \(5 hours\)](#)

This course continues and expands, in practice, the concepts of patient care introduced in the medical surgical nursing theory courses. The practicum and laboratory experiences focus on implementing the nursing process and skills with ill individuals from diverse populations and developmental levels in a variety of medical/surgical in-patient settings. (FA) Prerequisites: NRS300, 310, 316, 317. Concurrent with NRS417.

○ [NRS429: Health Policy and Administration \(3 hours\)](#)

This course provides an opportunity for the student to synthesize knowledge from all previous coursework and clinical experiences. This interdisciplinary course allows students to work together to understand regional, national, and global health care policy. The course presents leadership concepts and management skills as a basis for implementing change at the policy level. (SP). Prerequisites: NRS415, 416, 417, 419. Concurrent with 431.

○ [NRS431: Capstone \(4 hours\)](#)

The course provides an opportunity for the student to synthesize knowledge from all previous course work and clinical experiences. The student will be provided with the opportunity to practice professionally through delegation of tasks, supervision of nonprofessional staff, and management of patient groups. Students will provide direct patient care for clients and families with complex health needs. Capstone students will apply critical and creative thinking skills to synthesize and integrate nursing knowledge into an oral and/or written presentation of a project. (SP). Prerequisites: NRS415, 416, 417, 419. Concurrent with NRS432.

○ [NRS432: Professional Practice Preparation \(1 hours\)](#)

The professional practice lab experience provides opportunities for students to identify strengths and areas for improvement in their professional nursing skills. Along with faculty support, students are provided simulation experience, study group work, group review sessions, and professional practice experiences that will strengthen nursing knowledge and build confidence to practice as a nurse. (SP). Prerequisites: NRS415, 416, 417, 419. Concurrent with NRS431.

○ [NRS498: Independent Study in Nursing \(1 TO 4 hours\)](#)

Prerequisite: Approval of the divisional dean and consent of the chair of nursing and instructor.

## Philosophy

- [PHI101: Introduction to Philosophy \(4 hours\)](#)  
General Education P1. A historical introduction to the major fields of Western philosophy including logic, metaphysics, epistemology, and ethics. This course helps students better understand the world by studying significant interpretations of self, the world, and morality that have been offered by thinkers, past and present. (FA, SP)
- [PHI105: Introduction to Logic \(4 hours\)](#)  
General Education P1. A study of the principles and methods of logical reasoning. The class will focus primarily on formal mathematical deductive logic but will also include principles of inductive logic and Aristotelian syllogistic logic. (FA)
- [PHI106: Ethics, Values and Judgment \(4 hours\)](#)  
General Education P1. This course is a practical overview of key issues, questions and concepts in applied ethics. Special emphases are placed on the variety of ethical approaches to moral and ethical issue. Students will examine a variety of personal, social, and professional ethical issues and problems and learn methods of researching and evaluating them through the use of critical thinking skills and sound ethical reasoning. Students are provided an active learning experience, increased student interaction and opportunities for independent research into ethical issues of personal interest. (FA, SP, SU)
- [PHI192: Environmental Ethics \(4 hours\)](#)  
General Education P1. This course addresses historic philosophical and religious perspectives concerning the natural environment, including contemporary ethical responses to such global concerns as resource stewardship and management, technological change and impact, ecological diversity and sustainability, environmental politics and economics, energy use, population growth, and overconsumption. An emphasis will be placed on global resource challenges and social issues related to resource utilization. (SP)
- [PHI194: Bioethics \(4 hours\)](#)  
General Education P1. This course explores contemporary topics in biomedical ethics through an understanding of foundational biological principles and multiple ethical perspectives. Students critically read, analyze, and discuss essays that contrast viewpoints on bioethical topics. Improvement of student writing is emphasized. (FA, SP)
- [PHI205: Philosophy, Politics, and Economics \(4 hours\)](#)  
General Education P2. A discussion-based interdisciplinary course exploring the interrelated nature of fundamental ideas and methods used by philosophers, political scientists, and economists to study important socio-economic issues such as globalization, freedom and markets, citizenship and political power, and others. (SP)
- [PHI206: Ethics \(4 hours\)](#)  
General Education P2. An introductory investigation of alternative systems for determining and justifying ethical values. The course explores both theories of conduct (What should I do?) and theories of character (Who should I be?) through an exploration of the contemporary significance of theorists such as Aristotle, Kant, and Mill. (FA, SP, SU)
- [PHI206H: Ethics \(4 hours\)](#)  
General Education P2. An introductory investigation of alternative systems for determining and justifying ethical values. The course explores both theories of conduct (What should I do?) and theories of character (Who should I be?) through an exploration of the contemporary significance of theorists such as Aristotle, Kant, and Mill. Acceptance to the Honors Program required. (SP, odd years)
- [PHI207: History and Philosophy of Science \(4 hours\)](#)  
General Education P1. A study of the philosophical foundations of science. The class will discuss the nature, purpose and methodologies of scientific inquiry starting with Aristotelian science and tracing the development to the modern period. The class will also discuss the nature of scientific proof, the evaluation of evidence for scientific claims, and the formation and evaluation of scientific theories. (FA, odd years)

- [PHI213: Philosophy of Art \(4 hours\)](#)  
General Education P1 and CCD. This course introduces students to some of the most historically defining philosophical reflections on the notion of "art". In particular it will offer insight into some of the most prominent discussions circa its relationship with the concepts of nature and beauty, its social and moral function, and its autonomy in relation to the human mind and the artist's intention. (SP alternate years)
- [PHI298: Independent Study in Philosophy \(1 TO 4 hours\)](#)  
Qualified students will undertake an independent study project. Prerequisites: Junior or senior standing, approval of the divisional dean and consent of instructor.
- [PHI307: World Philosophy \(4 hours\)](#)  
General Education P2 and CCD. This course is an introduction to the study of contemporary non-Western philosophy: philosophical traditions that originated and developed in the cultural regions of Asia, Africa, and Latin America. Students will engage in an in-depth study of three works by contemporary thinkers that exemplify philosophical discourses of the three geographical and broad cultural areas identified. By means of the study of these distinct approaches to the discussion, for example, on the foundations of knowledge and reality, conceptions of the divine and the afterlife, ethical and political theories, students will be required to reflect on these works per se as well as in relation to their specific cultural and intellectual traditions, and to their intrinsic post-colonial character as reactions to distinctively Western and Classical philosophical and political theories. (FA, odd years)
- [PHI308: Philosophy of Religion \(4 hours\)](#)  
General Education P2. This is an advanced introduction to the main issues in the philosophy of religion. Topics that may be covered are the rationality of religious belief, cognitive experience of the divine, the compossibility of divine attributes, the efficacy of prayer, the problem of evil, and other issues that arise in philosophical theology. Also offered as REL308. (SP, odd years)
- [PHI320: Ancient and Mediaeval Philosophy \(4 hours\)](#)  
General Education P2. An advanced survey of philosophical thought from the Pre-Socratics to Late Scholasticism. The course will trace the development of western philosophical thought and the seminal ideas of western civilization as found in the work of the leading thinkers of the ancient and medieval world. (FA, even years)
- [PHI321: Modern and Contemporary Philosophy \(4 hours\)](#)  
General Education P2. An advanced survey of philosophical thought from the modern period beginning with Descartes through key 20th century and current philosophers. The course will trace the development of western philosophical thought and the seminal ideas of western civilization as found in the work of the leading thinkers since approximately 1600. (SP, even years)
- [PHI398: Independent Study in Philosophy \(1 TO 4 hours\)](#)  
Qualified students will undertake an independent study project. Prerequisites: Junior or senior standing, approval of the divisional dean and consent of instructor.
- [PPE499: Capstone in Philosophy, Politics, and Economics \(4 hours\)](#)  
The capstone course will have 4 components. 1) A major research paper: Each capstone student will propose and write a research paper on a topic approved by the capstone instructor. 2) Oral defense: each student will present and defend his or her research project to a panel of faculty in the major and other capstone students. 3) Comprehensive exam: each student will take an exam created by faculty in the major to test their mastery of the broad content of the major. 4) Transition plan: Students will be assisted in preparing a transition plan to career or graduate school as described in the capstone experience guidelines. Prerequisite: Senior standing as a PPE major. (Sp)

## Physical and Health Education

- [HED101: Intro to Health Care Skills \(1 hours\)](#)  
The purpose of this course is to provide the knowledge and skills that are necessary to become First Aid and Professional Rescuer CPR/AED (Automated External Defibrillator) certified in accordance with the American Red Cross. These skills include the ability to call for help, to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until advanced medical care arrives. Students will also be trained on policies and standards regarding blood borne pathogens and occupational exposure in accordance with the Occupational Safety and Health Administration (OSHA) guidelines. (Required course fee) (FA, WN, SP)
- [HED103: Personal and Community Health \(4 hours\)](#)  
Studies the dynamics of health in modern life with special emphasis on health concepts relevant to personal and community living. (FA, SP)
- [HED201: Nutrition \(2 hours\)](#)  
Basic principles of nutrition are covered as well as current problems and topics regarding both personal and world nutrition today. Designed for the public school teacher, the community health educator or those in related fields. (FA)
- [HED202: Drugs, Society and Human Behavior \(2 hours\)](#)  
This course is directed at introducing social, psychological, pharmacological and cultural aspects of drug use, misuse and abuse. In addition, the methods, materials and theories of drug abuse prevention in the school and community are introduced. (WN)
- [HED203: Consumerism in Health \(2 hours\)](#)  
The aim of this course is to identify content, resources, materials and instructional strategies for providing consumer education to various populations. (SU1)
- [HED204: Human Sexuality \(2 hours\)](#)  
This course reviews current information on health and human sexuality. Emphasis is given to cognitive and affective components of human sexuality. Major issues and topics in human sexuality are covered with particular attention to gender as it affects these issues. (SP)
- [HED205: Community Health \(2 hours\)](#)  
This course provides instruction in promotion of mental health on a community level. Counseling and patient education skills necessary to help individuals, families, and social groups cope with normal developmental challenges as well as the most prevalent community mental health problems, including modification of health-related behaviors, are presented. This course explores violence and substance abuse, including assessment for elder, partner, and child abuse. Emphasis is on prevention strategies and promotion of wellness behaviors. Systems-level program development and evaluation is included. (FA)
- [HED323: School Health Programs \(4 hours\)](#)  
Studies the importance of well-organized and planned school health programs with special emphasis on the importance of health to the school. Graduate credit available. (SP) Prerequisite: HED 103.
- [HED353: Special Methods in Teaching Health Education \(4 hours\)](#)  
Applications of general principles and methods of teaching health education. Special emphasis upon selection, use, and preparation of equipment, materials, teaching aids, and other resources especially designed for the health education setting (Pre-K-12). (SP) Prerequisites: HED 323 and HSC 103.
- [PED102: Basic and Intermediate Swim \(2 hours\)](#)  
This course is open to Physical Education majors only. Emphasis is placed on the improvement of the individual student's swimming skill. Course content ranges from the non-swimmer level through American Red Cross intermediate skill level. Physical education teaching majors and minors are required to enroll in this class unless they hold one of the following American Red Cross certifications: Water Safety Instructor or Lifeguard Training. (SP-Even years)
- [PED103: Philosophy, Principles & History of Physical Education/Athletics \(3 hours\)](#)

Physical and Health Education/Athletics This course gives the student a broad historical, philosophical, and futuristic view of the physical education/athletics field. Principles of physical education/athletics are also introduced with emphasis on curricular development and design. (Required course fee) (SP)

- [PED110: Basic Weight Training Instruction \(1 hours\)](#)  
This course provides training for the entry-level resistance-training instructor, introducing basic strength training techniques, basic training principles, functional anatomy, and exposure to a variety of forms of resistance training. Students learn to apply basic physiology, biomechanics, weight room safety, and basic program design. (Required course fee) (SP)
- [PED110L: Basic Weight Training Instruction Laboratory](#)  
Laboratory component for PED110.
- [PED120: Fundamental Motor Development \(4 hours\)](#)  
Introductory course exploring the growth and development of basic motor skills from infancy to adulthood and changes which occur in skills with advanced age. This course will also explore different learning theories and variables associated with mastering motor skills. (SP) Prerequisites: ANP130.
- [PED208: Organization and Administration of Physical Activities/Athletics \(2 hours\)](#)  
In this course, students study the organization and administration of physical education/ fitness and athletic programs. Course content addresses organizational issues at various levels of administration K-12 through adult. (FA)
- [PED214: Teaching Outdoor Activities in Physical Education \(2 hours\)](#)  
This course is designed to offer undergraduate students an in-depth experience with various outdoor skills for orienteering, outdoor survival, canoeing, mountain (wall) climbing, all season camping, safety outdoors, outdoor fitness (trail running, backpacking, hiking, mountain biking) and ropes course. (Required course fee) (FA)
- [PED310: Elementary Physical Education Activities \(3 hours\)](#)  
In this course, students study basic movement patterns in games of lower and higher organization as well as tumbling and individual activities. Fitness activities are incorporated throughout as well as early childhood assessment. (Required course fee) (FA)
- [PED311: Team Sports and Officiating \(3 hours\)](#)  
This course gives students a background in the history, rules, equipment, values and the fundamental skills and techniques necessary to participate in and enjoy team sports. Officiating techniques in team sports are also included. (Required course fee) (SP-Odd Years)
- [PED311L: Team Sports and Officiating Laboratory](#)  
Laboratory component for PED311.
- [PED312: Individual/Dual and Lifetime Activities \(3 hours\)](#)  
This course gives students a background in the history, rules, equipment, values and the fundamental skills and techniques necessary to participate in and enjoy individual and lifetime activities. (Required course fee) (SP-Even Years)
- [PED312L: Individual/Dual and Lifetime Activities Laboratory](#)  
Laboratory component for PED312.
- [PED320: Coaching Theory \(2 hours\)](#)  
The course is designed to be a comprehensive introduction to the art and science of coaching. The course introduces coaching philosophy, sport pedagogy, sport physiology, sport medicine, sport psychology, and sport management. This course is designed to examine theories and techniques in coaching through developing information, organization and management skills. Development of technical information, safety aspects and human relationships will also be studied. This course includes American Sport Education Program Coaching Principles certification. (SP)
- [PED321: Coaching Practicum \(4 hours\)](#)

This course is designed to provide students the opportunity to apply the principles and practices of coaching in a junior high, high school, or collegiate environment (Either boys or girls). The student will be allowed to actively participate in practical coaching experiences under the guidance and supervision of a qualified coach. The students will be matched with a team and coach that will help enhance the understanding of the principles of coaching, season planning and the roles of the coach as they relate to: formation and handling of athletic budgets, team policies, organization of team practices, preparations for home and away contests, dealing with individual and group conflicts, enforcing rules of the school and the team, and becoming familiar with conditioning, injury prevention and injury care. Prerequisites: HED101, PED320.

- [PED328: Elem Phy Ed Activities and Health Education \(3 hours\)](#)  
The course is specifically designed for elementary education majors to introduce both the content and techniques for delivering appropriate school health and physical education programs at the K-9 level. Content reflects Wisconsin's Model for Academic Standards for Physical Education and Health. (Required course fee) (FA, SP)
- [PED353: Capstone: Special Methods in Teaching Physical Education \(4 hours\)](#)  
Applications of general principles and methods of teaching physical education are presented in this course. Special emphasis is placed upon selection, use and preparation of equipment, materials, teaching aids and other resources especially designed for the physical education setting (Pre-K-12). Prerequisites: Successful completion of the PPST, admission to TEP or instructors permission and junior standing (Required course fee) (SP)
- [PED391: Special Problems and Research \(4 hours\)](#)  
Prerequisite: Approval of the divisional dean and consent of instructor.
- [PED398: Special Studies in Physical Educ \(1 TO 3 hours\)](#)  
Prerequisite: Approval of the divisional dean and consent of instructor.
- [PED411: Adapted Physical Education \(4 hours\)](#)  
This course introduces the student to skills, knowledge, and competencies necessary to evaluate, plan and organize educational and recreational activities for students with exceptional educational needs. A laboratory experience with students is also required. (Required course fee) (FA)
- [PED412: Assessment/Program Evaluation in Adapted Physical Education \(2 hours\)](#)  
This course introduces the core theoretical and practical background necessary to assess and evaluate the motor development and physical fitness needs of persons with disabilities. Students are able to administer various psychomotor assessment tools and apply the results in the design of an individualized motor program. (Required course fee) (SP) Prerequisites: HSC120, PED411. Co-requisite: PED414.
- [PED414: Field Experience in Adapted P.E. \(1 hours\)](#)  
This experience provides the student with an opportunity to work with students in an adapted physical education setting under the supervision of a Wisconsin 860 licensed physical education teacher. Attendance at a monthly seminar and a minimum of 40 clock hours must be spent at early childhood, elementary, and secondary levels. (SP) Prerequisites: PED411. Co-requisite: PED412.
- [PED421: Psycho-Social Aspects of Physical Activity \(4 hours\)](#)  
This course presents an introduction to basic issues and current research in the psychology and sociology of American sport, physical activity, rehabilitation and leisure. Specific emphasis is placed on the social and psychological factors affecting an individual's performance in motor activities. (FA, SP)



## Physical Therapy

- [PTH400: Foundations of Professional Practice \(3 hours\)](#)  
Fundamental concepts related to professionalism and the roles and responsibilities of the physical therapist are introduced. Emphasis is placed on professional practice expectations, including professional behavior and development, education and clinical reasoning. Practice management expectations include prevention/wellness/health promotion, management of health care delivery administration, consultation, and social responsibilities. (FA)
- [PTH401: Statistical and Research Methods \(3 hours\)](#)  
This course introduces evidence-based practice and the theory and practice of research. The components and processes of statistical methodology and quantitative and qualitative research designs are emphasized. Learners access a variety of literature sources to develop a research question, proposes methods, and expected clinical outcomes, which are defended orally and evaluated by peers and faculty. (FA)
- [PTH404: Biomechanics \(3 hours\)](#)  
This course integrates anatomy with mechanical principles to study and understand the causes and effects of forces acting on and produced by biological systems. Connective tissue properties and their relation to function and adaptation are discussed. The interactions of skeletal muscle, tendon, and general properties of human joints are analyzed in the context of normal human movement. (FA)
- [PTH404L: Biomechanics Laboratory](#)  
Laboratory component for PTH404.
- [PTH405: Neuroscience \(3 hours\)](#)  
This course is offered within the neurological track and introduces the nervous system and how behavior is produced from cellular change in the brain. The class will focus on understanding the fundamental anatomy and physiology involved in the pathways that connect neural activity with coordinated muscle movement. We will also cover relevant embryology, higher cognitive functions, and disease states. (SP)
- [PTH406: Exercise Physiology \(3 hours\)](#)  
This course provides fundamental knowledge about the adaptability of human physiological systems in meeting a range of exercise demands. Areas covered include nutrition; energy transfer during rest and exercise; function of the cardiovascular, respiratory, and skeletal muscle systems including energy delivery & utilization and exercise performance; acute and chronic physiologic and performance effects of exercise; exercise prescription for healthy adults; and body composition/weight management. Research evidence regarding how exercise and physical activity impact health, performance, and disease is included. (FA) Prerequisite: Entry-Level Physical Therapy Program Standing.
- [PTH406L: Exercise Physiology Laboratory](#)  
Laboratory component for PTH406.
- [PTH408: Introduction to Patient Management \(3 hours\)](#)  
This course introduces students to basic clinical skills germane to the profession of physical therapy. Standard safety procedures, communication skills, fundamentals of body mechanics, positioning and draping, transfers, gait training, mobility aids, and wheelchair management are introduced and integrated into the patient-client management model. This course will also emphasize clinical reasoning using simple patient problems in order to prepare students for patient care experiences in future coursework and internships. Prerequisite: Entry level in DPT program, CPR and First-Aid certified. (FA)
- [PTH408L: Introduction to Patient Management Laboratory](#)  
Laboratory component for PTH408.
- [PTH411: Foundations of Clinical Research \(2 hours\)](#)  
This course continues to build on previously taught concepts of evidence-based practice but emphasizes appraisal of the literature and application to clinical practice. Learners will be introduced to methods of appraisal across the patient-client management spectrum. They will



perform comprehensive appraisals of research articles, both under the guidance of faculty and individually. Learners will practice applying the best evidence to clinical scenarios while considering its limitations. Prerequisite: PTH401. (SP)

- [PTH411L: Foundations of Clinical Research](#)  
Laboratory component for PTH411.
- [PTH412: Tests & Measures \(3 hours\)](#)  
This course emphasizes the clinical test and measure skills needed during patient/client examination. This course strongly emphasizes laboratory experiences where skills are practiced and content is applied to clinical examination procedures of multiple body systems. (SP)
- [PTH412L: Tests & Measures Laboratory](#)  
Laboratory component for PTH412.
- [PTH414: Advanced Kinesiology \(3 hours\)](#)  
This course applies biomechanical concepts to joint specific and whole-body kinesiology. Musculoskeletal structure and function as they relate to the production of normal human movement are explored using a variety of analysis techniques. Palpation clinical skills are introduced and practiced. The course integrates concepts of posture, balance, and human movement, including gait analysis. (SP)
- [PTH414L: Advanced Kinesiology Laboratory](#)  
Laboratory component for PTH414.
- [PTH416: Therapeutic Exercise \(4 hours\)](#)  
This course continues to develop fundamental knowledge about the adaptability of human physiological systems in meeting a range of exercise demands. Areas covered include therapeutic exercise prescription, flexibility, considerations for aging and pediatric exercise and aquatic exercise. Research evidence regarding how exercise and physical activity impact health, performance, and disease is included. (SP)
- [PTH416L: Therapeutic Exercise Lab](#)  
Laboratory component for PTH416.
- [PTH498: Independent Study \(1-3 hours\)](#)  
This course involves independent study of selected areas of physical therapy under the supervision of a faculty member.

## Physics

- [PHY101: Introductory Physics I \(4 hours\)](#)  
The first course of a non-calculus based two-course sequence in the basic principles of physics covering the general areas of mechanics, thermal physics and fluids. The mathematical proficiency expected for this course is algebra and introductory trigonometry. This course satisfies the physics requirement for some majors, and pre-health professional requirements. Four hours of lecture/discussion and two hours of laboratory per week. (Credit cannot be received for both 101 and 203.) (Required course fee) (SP, SU) Prerequisite: MAT 101 or higher.
- [PHY101L: Introductory Physics Laboratory](#)  
Laboratory component for PHY101.
- [PHY102: Introductory Physics II \(4 hours\)](#)  
The second course of a non-calculus based two-course sequence in the basic principles of physics covering the general areas of wave motion (oscillations, waves and sound), light and optics, and electromagnetism. The mathematical proficiency expected for this course is algebra and introductory trigonometry. This course satisfies the physics requirement for some majors, and pre-health professional requirements. Four hours of lecture/discussion and two hours of laboratory per week. (Credit cannot be received for both 102 and 204.) (Required course fee) (FA, SU) Prerequisite: PHY101. Instructor consent is necessary for enrollment in 102 without completion of 101.
- [PHY102L: Introductory Physics Laboratory](#)  
Laboratory component for PHY102
- [PHY105: Astronomy \(4 hours\)](#)  
General Education N1. The course includes the study of the motions and structures of the earth, the moon, the sun, planets, stars and galaxies, and consideration of cosmological theories. The laboratory includes telescopic observational astronomy. Labs are scheduled for twice a week but only meet once a week on average for three hours. (Required course fee) (FA, SP, SU) Prerequisites: Satisfaction of the mathematics competency requirement for graduation.
- [PHY105L: Astronomy Laboratory](#)  
Laboratory component for PHY105.
- [PHY203: General Physics I \(4 hours\)](#)  
The first course of a calculus level two-course sequence in the basic principles of physics covering the general areas of mechanics, fluids and wave motion. This course satisfies the physics requirement for some majors, and pre-health professional requirements. Four hours of lecture/discussion and three hours of laboratory per week. (Credit cannot be received for both 101 and 203.) (Required course fee) (SP) Prerequisites: MAT 160.
- [PHY203L: General Physics I Laboratory](#)  
Laboratory component for PHY203.
- [PHY204: General Physics II \(4 hours\)](#)  
The second course of a calculus level two-course sequence in the basic principles of physics covering the general areas of heat, light, electricity and circuits, and magnetism. This course satisfies the physics requirement for some majors, and pre-health professional requirements. Four hours of lecture/discussion and three hours of laboratory per week. (Credit cannot be received for both 102 and 204.) (Required course fee) (FA) Prerequisites: MAT 160 and 161. Instructor consent is necessary for enrollment in 204 without the successful completion of 203.
- [PHY204L: General Physics II Laboratory](#)  
Laboratory component for PHY204.
- [PHY301: Electricity and Magnetism \(4 hours\)](#)  
Physical principles underlying modeling of charges and currents, including circuit elements and fundamentals of analog electrical circuits are explored through lecture and laboratory. Topics will include the following: Maxwell's equations, electric and magnetic fields in vacuum and in matter, potentials and the uniqueness theorem, current and voltage sources, resistors, Ohm's Law,

Kirchhoff's Laws, Thevenin and Norton theorems. Four hours of lecture/discussion and three hours of laboratory per week. (Required course fee) (SP, even years) Prerequisites: PHY 204, MAT 207.

- [PHY301L: Electricity and Magnetism Laboratory](#)  
Laboratory component for PHY301.
- [PHY303: Modern Physics \(4 hours\)](#)  
A course in the basic principles of modern physics treating the general subjects of atomic and nuclear physics, relativity, cosmology and quantum physics. Four hours of lecture/discussion and three hours of laboratory per week. (Required course fee) (Sp, odd years) Prerequisites: PHY204 or 102 and MAT160 and 161.
- [PHY303L: Modern Physics Laboratory](#)  
Laboratory component for PHY303.
- [PHY304: Classical Mechanics \(4 hours\)](#)  
An intermediate course in mechanics including vector calculus, conservation laws of mechanics, and dynamics of a particle and of a rigid body. Four hours of lecture/ discussion and three hours of laboratory per week. (Required course fee) (Sp, odd years) Prerequisites: PHY204 or 102 and MAT160 and 161.
- [PHY320: Thermodynamics \(4 hours\)](#)  
An introduction to the basic concepts of thermodynamics, including temperature, thermal expansion, heat flow, calorimetry, the four Laws of Thermodynamics, statistical mechanics and fundamental theories of phase transitions, topics on gas, vapor, combined power cycles, refrigeration cycles, gas mixtures, and gas-vapor mixtures. Engineering applications will be emphasized alongside theoretical fundamentals. (Sp, even years) Prerequisites: PHY204, MAT207.
- [PHY380: Engineering Internship \(4 hours\)](#)  
A work-oriented experience in applied physics. This is to be planned in advance with a physics faculty member. It does not count toward a minor in physics. S/U graded.
- [PHY396: Special Problems and Research \(4 hours\)](#)  
Prerequisite: Approval of the divisional dean and consent of instructor. (Required course fee)
- [PHY398: Independent Study in Physics \(1 TO 4 hours\)](#)  
Prerequisites: Junior standing, approval of divisional dean and consent of the instructor.
- [PHY450: Advanced Experimental Physics \(4 hours\)](#)  
In this advanced physics lab course, students design and complete a research project, discuss general physics topics and physics research, as well as attend seminars by physics and engineering professionals. Preparation for employment and professional skills development are emphasized. The course meets for 5 hours per week. (Required course fee.) (Fa) Prerequisites: PHY301 or PHY303.
- [PHY450L: Advanced Experimental Physics Laboratory](#)  
Laboratory component for PHY450.
- [PHY480: Work-Oriented Experience \(4 hours\)](#)  
A work-oriented experience in applied physics. This is to be planned in advance with a physics faculty member. It does not count toward a minor in physics. S/U graded.
- [PHY496: Special Problems and Research \(4 hours\)](#)  
Prerequisite: Approval of the divisional dean and consent of instructor. (Required course fee)

## Political Science and Global Studies

- [POL103: Politics of the World's Nations \(4 hours\)](#)  
General Education S1 and CCD. A survey of political systems that introduces students to fundamental concepts and their applications in many nations. The course examines public institutions (legislatures, executives, courts) and political processes (voting, policy-making). (SP, SU)
- [POL141: Intro to American Politics \(4 hours\)](#)  
General Education S1. A broad survey of American national politics. Political Science majors should take this course before taking any other course in politics. (FA, SP, SU)
- [POL155: Contemporary Global Politics \(4 hours\)](#)  
General Education S1 and CCD. This course provides an analysis of the dynamics of global politics and focuses on two general themes: 1) global conflict and cooperation and 2) the global political economy. Topics include state and non-state actors, the role of power and morality, the types and causes of war, foreign policy decision-making, just war tradition, humanitarian intervention, the democratic peace theory, global financial institutions, trade and international monetary policy, and the role of multinational corporations. (FA)
- [POL200: Social Science Inquiry \(4 hours\)](#)  
This course is designed to introduce students to the application of quantitative and qualitative research methods within social science disciplines. Students will also be introduced to SPSS statistical software. The course will culminate with students developing and presenting their own empirical research design proposals. The content in this course is intended to assist students in the preparation of upper-level seminar research papers including Capstone. (FA) Prerequisite: sophomore standing or above.
- [POL269: The American Congress \(4 hours\)](#)  
This course explains the operations and assesses the effectiveness of the contemporary Congress. Students will examine the United States Congress from an institutional perspective. We will also explore the behavior of members of Congress and their quest for office. (FA, even years)
- [POL275: Political Theory \(4 hours\)](#)  
General Education S1. A broad survey of the concerns, problems and achievements of recent political thought. Topics include democratic theory, African-American political thought, Feminist political theory, and post modernism. (FA) Prerequisite: sophomore standing or permission of instructor.
- [POL276: Democracy, Globalization, and International Governance \(4 hours\)](#)  
General Education S1. This course provides an overview of the concerns, problems, and achievements of recent occidental political thought in addressing normative issues emerging from globalization and its impact on democratic governance. (SP) Prerequisite: sophomore standing or permission of instructor.
- [POL280: Politics and Culture \(4 hours\)](#)  
This course explores the intersection of politics and high, low, and popular culture. The emphasis during the course of the semester will be to analyze the way in which culture and politics each influence each other. (FA, odd years)
- [POL285: International Conflict and Security \(4 hours\)](#)  
General Education S2 and CCD. The course introduces students to causes and consequences of war and conflict in the international system. The course covers the nature of security and insecurity in the international system and the various ways in which actors (states, IOs, groups and individuals) seek to prevent and mitigate the outbreak of conflict. Among the topics covered include the threat posed by the proliferation of weapons of mass destruction, terrorism, asymmetrical conflict, ethnic conflict, human security, and the challenges these problems present to the international system, states, and individuals.
- [POL291: Topics in Politics \(2 TO 4 hours\)](#)

Focused study of a topic of special concern to political scientists. Changing topics may be drawn from any area of politics. Course may be repeated for credit. Two-credit Topics in Politics courses may not be counted toward a political science or global studies major or minor.

- [POL298: Independent Study in Politics \(1 TO 4 hours\)](#)  
(FA, SP, SU) Prerequisite: Junior standing, approval of divisional dean and consent of instructor.
- [POL301: Politics of Developed Nations \(4 hours\)](#)  
General Education S2 and CCD. A comparative treatment of political systems in several advanced democratic nations. The course focuses on the policy problems that governments of developed countries face as they attempt to regulate 'post-industrial' economies and societies. (Fa, odd years) Prerequisite: POL103 or consent of instructor.
- [POL303: Politics of Developing Nations \(4 hours\)](#)  
General Education S2 and CCD. Through an examination of the political systems in a number of non-western countries in Africa, Latin America, Asia and the Middle East, this course studies the problems of political development in an environment of domestic and international challenges. (Fa, even years) Prerequisite: POL103 or consent of instructor.
- [POL321: International Law \(4 hours\)](#)  
General Education S2 and CCD. This course covers the historical development, sources, principles, enactment and enforcement of international laws. Attention will be paid to the expansion of the field from its traditional focus on states to the inclusion of non-state actors such as International Organizations, Non-Governmental Organizations and individuals. Specific topics include: war and conflict, human rights, and environmental law. Readings and discussions review relevant decisions from both U.S. and international courts, utilizing the case method approach widely used in law schools. (SP, even years)
- [POL329: The German Experience \(4 hours\)](#)  
A research-oriented course examining modern German history. Emphasis is placed on the process of unification, the Nazi era, the GDR and reunification. (FA, odd years) Prerequisite: Junior standing or consent of the instructor. Students planning to take POL 329 for their German language minor must contact the instructor (in the semester before they enroll in POL 329) to develop a plan for adapting coursework to incorporate and demonstrate appropriate use of the language.
- [POL332: Public Policy \(4 hours\)](#)  
This course focuses on the formulation, implementation and evaluation of public policy. Emphasis is given to the variety of ways public goals are pursued by governments, especially within the United States. The class will explore a number of different policy areas as case studies. (SP, odd years)
- [POL335: Public Administration \(4 hours\)](#)  
A broad survey of the whole area of administrative politics and processes at the national, state and local levels while focusing on the work of public agencies and nonprofit organizations in implementing public policy. (SP, odd years)
- [POL336: The American Presidency \(4 hours\)](#)  
This course examines the origins, growth, and complexity of the American presidency. The constitutional role and historical developments of the Chief Executive will be considered in relationship to the meaning of democratic government, the separation of powers, and the expansion of public administration during the 20th century. (SP, even years)
- [POL344: Constitutional Law and Politics \(4 hours\)](#)  
A study of the interpretation of the United States Constitution by the Supreme Court; the role of politics on judicial interpretations and their influence in American government and society. (FA, even years)
- [POL381: Internship in Politics \(4 TO 12 hours\)](#)  
Prerequisites: Senior standing and at least a 2.5 grade point average in courses in the major. S/U graded. (FA, SP, SU)

- [POL382: Internship in Global Studies \(4 hours\)](#)  
Prerequisites: Senior standing and at least a 2.5 grade point average in courses in the major. S/U graded. (FA, SP, SU)
- [POL391: Topics in Politics \(4 hours\)](#)  
Focused study of a topic of special concern to political scientists. Changing topics may be drawn from any area of politics. Course may be repeated for credit. Two-credit Topics in Politics courses may not be counted toward a political science or global studies major or minor.
- [POL398: Independent Study in Politics \(1 TO 4 hours\)](#)  
(FA, SP, SU) Prerequisite: Junior standing, approval of divisional dean and consent of instructor.
- [POL399: Capstone in Political Science and Global Studies \(4 hours\)](#)  
The political science/global studies capstone asks majors in these disciplines to formally demonstrate and integrate their substantive knowledge of political science or global studies through a significant research project, which they present in a public forum. The capstone also engages students in the process of transitioning from undergraduate life to advanced study or the workforce. Students develop transition plans and are encouraged to assess how their experiences at Carroll have prepared them for the next steps in life - both professional and personal. (SP)
- [PPE499: Capstone in Philosophy, Politics, and Economics \(4 hours\)](#)  
The capstone course will have 4 components. 1) A major research paper: Each capstone student will propose and write a research paper on a topic approved by the capstone instructor. 2) Oral defense: each student will present and defend his or her research project to a panel of faculty in the major and other capstone students. 3) Comprehensive exam: each student will take an exam created by faculty in the major to test their mastery of the broad content of the major. 4) Transition plan: Students will be assisted in preparing a transition plan to career or graduate school as described in the capstone experience guidelines. Prerequisite: Senior standing as a PPE major. (Sp)

## Psychology

- [PSY101: Introductory Psychology \(4 hours\)](#)  
General Education S1. An introduction to the science of behavior and mental processes. Emphasis is placed upon methods of inquiry utilized in the social sciences. These methods will be used to investigate psychological questions regarding topics such as perception and consciousness, learning, memory and thinking, biological and developmental processes, motivation and emotion, personality, social determinants of behavior, and mental health. (FA, SP)
- [PSY201: Abnormal Psychology \(4 hours\)](#)  
A study of major and minor psychological disorders. Consideration of classification issues and theoretical perspectives precedes an examination of research on genetic, biobehavioral and psychosocial determinants of stress reactions and psychological disorders. Consideration is also given to healthy adjustment and coping strategies as well as prevention and therapy options. (FA, SU) Prerequisite: PSY 101.
- [PSY205: Statistics and Experimental Design \(4 hours\)](#)  
Required for the psychology major and highly recommended for many others, this course teaches the data analysis procedures most widely used by researchers in the social and behavioral sciences. Instructional emphasis will be on learning which statistic to use, how to perform the data analyses and how best to communicate one's results. Students will gain extensive experience collecting, analyzing, thinking about and using statistical data. Computations will be done both by calculator and by computer. Four hours of lecture-discussion and one two-hour laboratory. (Lab fee required) (FA, SP, SU) Prerequisite: PSY101, CMP112, and at least sophomore standing or special permission from the instructor.
- [PSY205L: Statistics and Experimental Design Lab](#)  
Laboratory component for PSY205.
- [PSY206: Developmental Psychology \(4 hours\)](#)  
A study of the theories, research, and issues related to physical, intellectual, social and emotional development. Slight emphasis on children, including observational strategies for behavioral assessment of infants and children, are included. (SP) Prerequisite: PSY101.
- [PSY211: Industrial and Organizational Psychology \(4 hours\)](#)  
The psychological study of factors related to people at work. Employee selection methods such as testing and interviewing, performance evaluations, job descriptions, statistical validation and decision techniques, motivation, leadership, satisfaction, job redesign and organizational development are examined. (FA, SU even years) Prerequisite: PSY101
- [PSY221: Life-Span Psychology \(4 hours\)](#)  
General Education S2 and CCD. A comprehensive course with an applied emphasis which examines individual development throughout life. Topics such as genetic inheritance, intellectual change and social adjustment are viewed as processes that extend from the neonatal period through very old age. (FA, SP, SU) Prerequisite: PSY101.
- [PSY228: Consumer Behavior \(4 hours\)](#)  
An applied psychology course focusing upon the behavior of the individual consumer. Concepts derived from perception, motivation, personality, learning and cognition are developed in the analysis of consumer decision-making. Theory and research in social media and on-line advertising is discussed. (SP, SU odd years) Prerequisite: PSY101.
- [PSY240: Biopsychology \(4 hours\)](#)  
This course examines the biological substrates of the mind and behavior. Foundational to the course is an understanding of the electrochemical processing that occurs in and between neurons, with relevant applications to drug use, emotions, learning, memory, sleep, consciousness, sensory systems, evolution, and psychiatric disorders. (SP) Prerequisite: PSY101. Credit cannot be received for PSY240 and PTH405.
- [PSY260: Health Psychology \(4 hours\)](#)  
Based on the research of clinical, experimental social and health psychologists, this course examines how psychological, social, and biological factors affect health and illness. Topics include



coping with stress and pain, psychoneuroimmunology, and living with chronic illness, such as diabetes, cardiovascular disease, or cancer. Emphasis is also placed on effective patient-clinician communication and on the modification of health-related behaviors. (SP, SU) Prerequisite: PSY101.

- [PSY303: Experimental Social Psychology \(4 hours\)](#)  
This course reviews and critically examines the research findings of experimental social psychologists. Among the topics explored are attitude change, prejudice, conformity, altruism, aggression and group dynamics. Instructional emphasis will be on developing ideas for further needed social psychological research. (FA) Prerequisite: PSY101 and 205.
- [PSY306: Psychological Testing and Assessment \(4 hours\)](#)  
This course gives students a strong foundation in the technical and methodological principles of test construction and in the social and ethical implications of psychological testing. Students will learn criteria for selecting and critically evaluating tests. In addition, students will actually take and study in depth a number of widely used tests of personality, occupational interests, intelligence and values. (Course fee required) (SP) Prerequisite: PSY101 and 205.
- [PSY307: Experimental Psychology \(4 hours\)](#)  
A research methods course in experimental science. Knowledge gained from PSY205 is combined with laboratory exercises in physical control and measurement of variables. A class component covers experimental and quasi-experimental research methods. In addition, students conduct an individual experimental project and learn how to write research reports. Four hours of lecture/discussion and one three-hour laboratory. (Lab fee required) (WN, and SU) Prerequisites: PSY101, 205, and one additional four-credit 200-level PSY course taken at Carroll University.
- [PSY307L: Experimental Psychology Lab](#)  
Laboratory component for PSY307.
- [PSY314: Learning and Animal Behavior \(4 hours\)](#)  
A systematic survey of basic principles of learning and behavior in animals including humans. In the context of evolutionary psychology, attention is directed toward Pavlovian and instrumental conditioning, behavioral approaches to learning, species specific concerns, and motivation. Basic research is related to applied efforts in behavior modification and educational technologies. (FA, SP) Prerequisites: PSY205. Credit cannot be received for both 314 and PTH 407.
- [PSY316: Thinking, Problem Solving, and Cognition \(4 hours\)](#)  
A study of human intelligence. This course focuses upon cognitive processes and structures involved in perception, memory, critical thinking, problem-solving and creativity. Applications to effective study and reading comprehension are also examined. (FA, SP) Prerequisite: PSY101.
- [PSY317: Adult Development & Aging \(2 hours\)](#)  
This course provides an introduction into the concept that adult development and aging is just one part of the life span. A person's chronological age as well as his or her life experiences are important considerations in understanding the person as a whole. A discussion of research methods used in adult development research will also be examined (e.g., age effects, cohort effects, and time-of-measurement). Normal development is emphasized; however, special human circumstances are also explored. (WN, SU) Prerequisites: PSY101.
- [PSY321: Personality - Theory and Assessment \(4 hours\)](#)  
The personality theories of Freud, Jung, Erikson, Rogers, Cattell and others are examined using both textbook treatments and original works of the psychologists. Biological contributions to personality are also discussed. Various psychological assessments are used to help students examine aspects of their own personalities. (Course fee required) (FA) Prerequisite: PSY101.
- [PSY391: Special Studies in Psychology \(2 hours\)](#)  
One-time courses, offered as announced. Topics vary. (FA, SP, SU) Prerequisite: PSY101.
- [PSY398: Independent Study in Psychology \(1 TO 4 hours\)](#)  
(FA, SP, SU) Prerequisites: PSY101, Junior standing, approval of divisional dean and consent of instructor.



- [PSY401: Behavioral Neuroscience \(4 hours\)](#)  
Building on the introduction to the brain provided in PSY240, this course examines deeper principles of brain function. Understanding the brain at a deep level requires studying and manipulating models grounded in principles of brain function. In this course, students will systematically explore neural network models of learning, attention, memory, language, and higher-level cognition in an integrated lecture-lab format. (Lab fee required) (FA) Prerequisite: PSY101 and PSY240, or consent of instructor.
- [PSY401L: Behavioral Neuroscience Laboratory](#)  
Laboratory component for PSY401.
- [PSY403: Capstone-Historical and Modern Viewpoints of Psychology \(4 hours\)](#)  
This capstone course prepares the psychology major for a career in or related to the major. It also integrates traditional subject matter of perception, learning, social and developmental processes, as well as intelligence, motivation and personality. Historical roots, contemporary issues, as well as career opportunities, form the bases of class activities. Each student also completes career and major project portfolios. (Course fee required) (FA, SP) Prerequisites: Junior or Senior standing, and Psychology as a declared major.
- [PSY414: Research Methods in Behavior Analysis \(2 hours\)](#)  
This laboratory course will introduce students to behavior analytic research methods. Specifically, students will learn behavior recording techniques, methods of establishing interobserver agreement, and experimental methods for studying behavior change at the individual-level. By the end of the semester, students will design, carry-out, and write-up original research using nonhuman-animal subjects (Sp) Prerequisites: PSY314.
- [PSY480: Internship in Psychology \(2 TO 4 hours\)](#)  
Provides majors contemplating a career in psychology or in related areas with supervised field experience. S/U graded. (FA, SP, SU) Prerequisite: PSY101, Junior standing and consent of instructor.
- [PSY492: Research Seminar \(4 hours\)](#)  
This course is required for those psychology majors who are in the university-wide honors program and is recommended for all psychology majors. Students conduct systematic empirical research in the context of a seminar directed and coordinated by a faculty member. Seminar discussion is focused upon a current topic and is largely confined to asking researchable questions, exploring the feasibility of student-generated research proposals and evaluating student research reports. (FA, SP) (Lab fee required) Prerequisite: PSY101, 205 and 307.
- [PSY498: Independent Study in Psychology \(1 TO 4 hours\)](#)

- Public Health
  - [PBH101: Introduction to Public Health \(4 hours\)](#)  
General Education S1. This course is designed to expose students to core topics in the area of public health. The course will examine varying health, environmental, and behavioral influences on the health of the public in the United States. The course will challenge students to think critically at the varying nature of public health and current events. Students will evaluate case studies and be provided with a basic didactic background. The course will be team taught and/or will include multiple guest speakers who can address the breadth of topics in this area. (FA, SP)
  - [PBH102: Global Health \(4 hours\)](#)  
General Education S1 and CCD. This course will introduce students to the main concepts of the public health field and the critical links between public health and social and economic development. Students will get an overview of various factors, including social, economic, and political issues on the health of individuals and of communities. The course will also introduce students to key concerns regarding nutrition, reproductive health, infectious diseases, and chronic diseases. The course will cover key concepts but be very practical in orientation. The course will be global in coverage but with an important focus on the developing world and on the health of the poor. (FA, SP)
  - [PBH210: Public Health for Communities \(4 hours\)](#)  
This course is designed to provide students in public health with a broad-based overview of public policies, service delivery systems, and family-centered approaches to public health. Prerequisites: PBH101, PBH102. (FA)
  - [PBH211: Public Health Field Experience \(2 hours\)](#)  
This course will provide students with an opportunity to observe public health professionals under the direction and supervision of the Public Health faculty. Students will be placed at an on or off-campus organization to apply, and further develop, core public health competencies. Depending on the placement site, students will have the opportunity to assist with a variety of activities, including health promotion and education, program development and assessment, and disease surveillance. (Course fee required) Prerequisites: PBH101, PBH102, PBH210. (SP) (Required course fee)
  - [PBH302: Environmental and Occupational Health \(2 hours\)](#)  
This course is designed to introduce environmental health issues and key concepts related to environmental risk and policy. The specific topics covered during this course include air and water quality, food safety, vector-borne diseases, and pesticides. The goal of the course is to provide students with basic knowledge of environmental health as it applies to the principles of public health practice from individual, organizational and political perspectives. Prerequisite PBH 101,102. (FA)
  - [PBH303: Occupational Health and Safety \(2 hours\)](#)  
Work has an impact on physical and psychological health. In this course students will gain an understanding of the current state of occupational health and safety in the United States and globally and underlying theories of accident causation. Students will explore the enforcement of laws regulating occupational safety and health, physical and psychological hazards facing employees, and the roles of workers, employers and public health professionals in today's complex work environments. New challenges in occupational health and safety, such as MRSA in the workplace and emergency preparedness, will also be addressed. Prerequisites: PBH101, co-requisite: PBH302. (FA)
  - [PBH312: Public Health Policy and Administration \(4 hours\)](#)  
This course is about making public policy in public health and in health care: what it is, who makes it, and how and when it is made successfully. The course aims (1) to highlight several selected critical public policy issues and (2) to build skills in critical, reflective thinking that will help the student in making decisions about, or advocating for, policies that reflect individual and societal values. In the study of public policy, there are two broad theoretical models for explaining the policy making process. One is the rational model that emphasizes economic analysis and rational decision making. The other model is based in political science. This course

is built on the political science model and emphasizes the political context in which public policy is always developed. Prerequisites: PBH101, PBH102. (SP)

- [PBH320: Principles of Health Behavior \(4 hours\)](#)  
This course provides instruction in evidence-based strategies for changing health-related behaviors on an individual, group, and ecological level. Major theories and models will be reviewed; effective assessment and communication will be emphasized. These considerations will be applied to the development, implementation, and evaluation of an individual health behavior modification project. Anticipating and managing barriers to change on both individual and organizational levels will be addressed, as will strategies for engaging clients and evaluating the efficacy of intentions. Please note: PSY260 will be accepted in place of PBH320. Prerequisites: PBH101. (SP)
- [PBH324: Program Development, Assessment, and Evaluation in Public Health \(4 hours\)](#)  
This course presents methods for the identification of population-based needs for public health intervention, development of programs to meet those needs, and evaluation of the effectiveness of these public health interventions. The course integrates several knowledge and skill areas including: research methods, epidemiology, biostatistics, proposal writing, budget planning, project management, and program evaluation. Prerequisites: PBH101, PBH102, PBH210. (SP)
- [PBH421: Epidemiology \(4 hours\)](#)  
General Education S2. Modern epidemiology, as a science applicable to investigations of disease and other outcomes, policy assessment, and population science, evolved during the last half of the 20th century. Epidemiologic methods focused on application of statistical theory, use of survey methods, and information technology implementation. Epidemiology also broadened its scope to include concepts of causation applicable to non-communicable disease and other health determinants, including social and behavior factors. Applications to intervention efficacy, effectiveness, and safety, testing and decision-making methods, and policy analysis applicable to social concerns recently have been integrated into epidemiology teaching and research. Prerequisites: CMP112, PBH101, PBH102, PBH210. (FA)
- [PBH480: Public Health Internship \(6-12 hours\)](#)  
Students are given the opportunity to apply public health theories and concepts to actual work experiences under the supervision of an external and capstone supervisor. This course is a part-time or full-time internship with an affiliated organization or facility actively engaged in the field of public health or in some cases an on campus experience. The purpose of the internship program is to enhance and develop personal growth in public health disciplinary knowledge, ethical behaviors, career development, interpersonal skills, problem solving abilities, and personal responsibility. Further, it is intended to complement and reinforce the academic goals of the institution. Prerequisite: completion of major requirements, 2.75 GPA in the major and consent from program faculty required. (Course fee required) (FA, SP, SU)

- Recreation Management
  - [REC203: Therapeutic Recreation Process\\* \(3 hours\)](#)  
Study of Therapeutic Recreation (TR) process including the values and underpinning of practice, and the inter-relationships between TR, health care and human service professionals. Counts as a repeat of TherRec 390 with same topic. (SU, FA) Course taught completely online. Prerequisite: None.
  - [REC300: Therapeutic Recreation Assessment and Documentation\\* \(4 hours\)](#)  
Students will study and explore the practice of assessment and documentation in the field of therapeutic recreation. (SP) Prerequisite: none.
  - [REC308: Therapeutic Recreation in Physical Rehabilitation and Behavioral Health\\* \(4 hours\)](#)  
This course will focus on the study of therapeutic recreation services for individuals with physical disabilities and behavioral health disorders. (FA) Prerequisite: none.
  - [REC310: Facilitation Techniques in Therapeutic Recreation\\* \(4 hours\)](#)  
The study of various facilitation techniques used in the field of therapeutic recreation. Specific emphasis will be placed on leisure education. (SP) Prerequisite: none.
  - [REC400: Issues and Trends in Therapeutic Recreation\\* \(3 hours\)](#)  
Examination of the most current trends and issues in the field of TR. (SU, FA) Prerequisite: REC308 or consent of instructor.
  - [REC480: Internship-Recreation Management \(12 hours\)](#)  
The purpose of this course is to enhance and develop personal growth in recreation management knowledge, ethical behaviors, career development, interpersonal skills, problem solving abilities, and personal responsibilities through participation in an internship at a recreation facility. During a 15-week internship, students will spend 30 hours/per week (450 total hours) developing, implementing, and administering recreation and outdoor adventure programs in a university affiliated recreation program. During the 15-week internship, students participating in the internship will come together for seminars. (SU, FA, SP) Prerequisites: REC405 and 410.

## Religion

- [REL100: World Religions \(4 hours\)](#)  
General Education P1. This course is a survey of religions practiced around the world today, including 'world' religions like Hinduism, Judaism, Buddhism, Christianity, Islam, Taoism, and Confucianism, but also touching on native and folk religions, Baha'i, Sikhism, and others. The approach is interdisciplinary, addressing historical development in addition to central beliefs and practices of a wide range of religions. Students will leave with a better sense of the variety of religious thought and practice, and of the importance of historical context in the formation and development of religions. The course also prepares the student for further study of particular religious traditions. (FA, SP)
- [REL102: Introduction to the Hebrew Bible \(4 hours\)](#)  
General Education P1. An introduction to the history, literature, and interpretation of the Hebrew Bible/Old Testament. The course includes a study of the historical and cultural traditions of the ancient Israelites and the use of archaeological, historical, and literary methods in studying the Hebrew Bible literature.
- [REL103: Intro to the New Testament \(4 hours\)](#)  
General Education P1. An introduction to the history, literature, and interpretation of the New Testament. The course includes the study of the Jewish and Greco-Roman historical backgrounds of Jesus and the earliest church and the use of historical, sociological, and literary methods to examine the New Testament writings. (FA, SP)
- [REL106: Understanding Religion \(4 hours\)](#)  
General Education P1. We can describe religion; we can compare our own experiences with one another; we can watch other people when they are being 'religious'; we can see films, listen to music, look at advertising and watch news reports to discover where religion shows up, but what does it take to actually define religion? To begin the task of defining religion in this course, we will consider what religious people do, including: creating rituals, reading sacred texts, making sacred spaces, using special language, behaving ethically and sometimes behaving violently. We will look at ideas and practices across religious traditions but this is not a course in religions of the world. Rather, it is an introduction to the big ideas and common practices that help define what religion is. (FA, SP)
- [REL108: Introduction to Buddhism \(4 hours\)](#)  
General Education P1. This course provides an introduction to the academic study of Buddhism and its manifestations in different areas of the world. It will survey the historical development of Buddhism and its core religious and philosophical principles - its theory of liberation, cosmology and ethics. Building on these foundations, the course will present significant case studies of contemporary Buddhism drawn from around the world (e.g.: Thailand, Burma, Sri Lanka, Taiwan, United States). Through the analysis of these selected cases, students will have an opportunity to study how different Buddhist traditions have adapted and reacted to a modern and globalized world. By investigating these attempts at survival and promotion in the contemporary global context, students will explore the challenges of perpetuating tradition and orthodoxy, and the emerging commercialization of Buddhism in the name of its survival as a significant world religion. (SP)
- [REL201: Jesus of Nazareth \(4 hours\)](#)  
General Education P1. A study of Jesus in his first-century historical context as a Jew and in the different literary contexts of the New Testament (e.g. the Gospels, Paul, Revelation). The course will also include an examination of how Jesus is interpreted in today's global context (e.g. Africa, Latin America, Asia, and North America). (FA)
- [REL202: Religious Traditions in America \(4 hours\)](#)  
General Education P1. A variety of religious traditions has played and continues to play important roles in our communities, small and large. This course focuses on the origins of contemporary religious traditions in the US, their basic beliefs, and their impact on life. The course may include presentations by local representatives of traditional faiths as well as more recent developments, and may involve visits for participants' exposure to new religious experiences. (SP)
- [REL210: Suffering and Hope \(4 hours\)](#)

General Education P1 and CCD. An in-depth examination of the theme of suffering and hope through a survey of foundational primary texts and contemporary theologies in different cultural and religious traditions. Students will learn several major perspectives on suffering and hope, explore assumptions that are made regarding suffering, and examine the ethical implications of the different views of suffering. ENG 170 recommended prior to enrollment. (FA, odd years)

○ [REL215: Women in Religion \(4 hours\)](#)

General Education P1 and CCD. A reading of world religions through the lens of women's experience. In studying religions such as Hinduism, Islam, Buddhism, Christianity, and Native American traditions, we will not only discuss the essential teachings of the religion but we will consider how women have changed those teachings and the backlash against them for it. (FA, even years)

○ [REL220: Health and Religion \(4 hours\)](#)

General Education P1 and CCD. This course examines the relationship between health, healthcare and religion in different world cultures (Western, traditional Indian, Chinese, Middle Eastern and a selection of indigenous systems across the world). It examines different worldviews and their understanding of health, medicine, and questions such as the role of spirituality in health and healthcare, religious and medical approaches to illness and suffering, and the integration of traditional medico-religious approaches in contemporary healthcare. (FA, SP)

○ [REL224: Religion and Literature \(4 hours\)](#)

General Education P1 and CCD. This course asks students to understand literature from around the world in the context of religious texts, traditions, and practices. Students will also approach religious texts as literature contributing to both literary and religious traditions. This twin perspective provides students a unique and accessible window into religious life and encourages them to understand living cultures as constantly producing their religiosities. Students will consider Western and non-Western literature and religions as distinct but also as in conversation with each other. (SP, even years)

○ [REL230: Foundations of Christianity \(4 hours\)](#)

General Education P1. This course examines Christian teachings about God, Christ, and Salvation developed from 100 to 1650 C. E. The study of the concepts, practices, and experiences of this formative period of Christianity is background for a critical understanding of Christianity in our times.

○ [REL231: Christianity in the Modern World \(4 hours\)](#)

General Education P1. How has Christianity been involved in the life of the modern world from 1650 to the present? We will consider how Christians rethought their faith commitments while science and philosophy challenged their traditional assumptions. We will also examine recent Christian theological and ethical responses to such topics as gender and sexuality, environmental concerns, poverty, global conflicts, and the relationships among religions.

○ [REL291: Topics in Religious Studies \(4 hours\)](#)

A study of a selected topic in religious studies that is not covered in regular course offerings. Different topics in the fields of Bible, theology, history, ethics and current issues in culture and religion will be offered.

○ [REL298: Independent Study in Religious Studies \(1 TO 4 hours\)](#)

A course for students who are interested in working with a faculty member on a specific area of study. (FA, SP) Prerequisites: Junior standing, approval of divisional dean and consent of instructor.

○ [REL306: Asian Religions \(4 hours\)](#)

General Education P2 and CCD. In this course, students will explore the sacred literature, practices and cultures of Islam, Buddhism, Hinduism, Jainism, Sikhism, Confucianism, Taoism, and the religions of Japan. (FA, odd years) Prerequisite: Sophomore standing or consent of the instructor.

○ [REL308: Philosophy of Religion \(4 hours\)](#)

General Education P2. This is an advanced introduction to the main issues in the philosophy of religion. Topics that may be covered are the rationality of religious belief, cognitive experience of

the divine, the compossibility of divine attributes, the efficacy of prayer, the problem of evil, and other issues that arise in philosophical theology. Also offered as PHI 308. (SP, odd years)

- [REL310: Powers, Politics, and Pluralism in Biblical Interpretation \(4 hours\)](#)  
General Education P2 and CCD. This class examines how the Bible has been interpreted to support certain positions regarding politics, class, race, gender, and sexual orientation. The class will explore how the Bible has been interpreted in global contexts and will focus in particular on how those in the United States have read and lived out the Bible through history. Topics may include slavery, roles of women, politics, same-sex relations, class relations, postcolonialism, anti-Semitism, end-time beliefs, and religious cults. (SP, odd years)
- [REL316: Judaism, Christianity, and Islam \(4 hours\)](#)  
General Education P2 and CCD. In this course students will explore the foundational texts, histories, beliefs, and practices of the three western monotheistic religions: Judaism, Christianity and Islam. An emphasis will be placed on learning each of the three traditions on their own as well as the variety of perspectives expressed within each tradition. A comparative study on several topics will also be included. Contemporary issues and conflicts involving these traditions will be explored. (SP, even years)
- [REL362: New Testament Greek Tutorial \(2 hours\)](#)  
Independent study with instructor. Specifically offered for those planning to attend graduate school in religious studies. Does not count toward major or minor. S/U graded. (Offered when requested)
- [REL364: Hebrew Tutorial \(2 hours\)](#)  
Independent study with instructor. Specifically offered for those planning to attend graduate school in religious studies. Does not count toward major or minor. S/U graded. (Offered when requested)
- [REL380: Internship in Religious Studies \(1 TO 4 hours\)](#)  
An opportunity for students to work for local churches, social service agencies or other appropriate institutions under faculty supervision. The program provides practical experience supported by study and reading. The student may choose to participate in the program for a semester or a year. The work is S/U graded. Prerequisite: Consent of the instructor.
- [REL391: Topics in Religious Studies \(4 hours\)](#)  
A study of a selected topic in religious studies that is not covered in regular course offerings. Different topics in the fields of Bible, theology, history, ethics and current issues in culture and religion will be offered.
- [REL398: Independent Study in Religious Studies \(1 TO 4 hours\)](#)  
A course for students who are interested in working with a faculty member on a specific area of study. (Fa, Sp) Prerequisites: Junior standing, approval of divisional dean and consent of instructor.
- [REL480: Internship in Religious Studies \(1 TO 4 hours\)](#)  
An opportunity for students to work for local churches, social service agencies or other appropriate institutions under faculty supervision. The program provides practical experience supported by study and reading. The student may choose to participate in the program for a semester or a year. The work is S/U graded. Prerequisite: Consent of the instructor.
- [REL499: Capstone: Senior Seminar \(4 hours\)](#)  
Seniors research and write a substantial research paper which demonstrates their competency in religious studies and their ability to incorporate general education skills. Students will also give an oral presentation of the paper to faculty and interested students. As part of the seminar, students are required to complete an intentional plan for their transition from undergraduate school to a career and/or to graduate/professional school. Prerequisite: Senior standing.



## Sociology and Criminal Justice

- [SOC101: Introduction to Sociology \(4 hours\)](#)  
General Education S1. An introduction to sociological concepts, explanations, and research findings to enable students to better understand the society in which they live and their place in that society. Topics include: culture, inequality, social relationships, deviance, membership in groups and social institutions such as education, religion and the family. (FA, SP)
- [SOC102: Sociology of Social Problems \(4 hours\)](#)  
General Education S1. A survey and analysis of major problem areas in contemporary American society, including areas such as drug use and abuse, family issues, poverty, crime, delinquency, environmental issues and war. (FA, SP)
- [SOC102H: Sociology of Social Problems \(4 hours\)](#)  
A survey and analysis of major problem areas in contemporary American society, including areas such as drug use and abuse, family issues, poverty, crime, delinquency, environmental issues and war. (FA, odd years)
- [SOC103: Introduction to Criminal Justice \(4 hours\)](#)  
A survey of the history, structure, functions and operations of the primary components in the criminal justice system in the United States including law enforcement, courts and corrections. Includes an analysis of current issues such as discretion, sentencing practices, disparities in sentencing, and alternatives to incarceration. May not be counted toward a sociology major or minor. (FA, SP)
- [SOC110: Cultural Anthropology \(4 hours\)](#)  
General Education S1 and CCD. The study of literate and non-literate cultures from throughout the world using basic anthropological concepts. Explores descriptive data from a variety of cultures and the general patterns that exist across cultures. Includes topics such as culture, language, subsistence, stratification, family, kinship, descent, religion, social control and cultural change. (FA, SP) ENG170 is recommended prior to enrollment.
- [SOC130: Culture and Crime \(4 hours\)](#)  
General Education S1. This course examines the American culture and society to understand why and how it perpetuates criminal lifestyles. It illustrates how America's vision of economy, morality, and race determines how the criminal justice system operates, the policies the criminal justice system follows, and the creation of criminal statistics. In essence, it helps form the notion that crime and criminals are a product of society and culture. This class is a general distribution course and does not count towards the criminal justice major or minor. (SU)
- [SOC202: Society and Ecology \(4 hours\)](#)  
This course examines the relationships between the cultural and structural patterns of society and the ecosystem. The course focuses on a critical examination of contemporary social systems and their relationships to the natural environment. It investigates the role culture plays in affecting human relationships with the earth and how the belief systems of a people shape their perspective regarding the role of humans in the natural world. Students identify and examine parameters of sustainable social systems. (SP) Prerequisite: SOC101 or 102.
- [SOC202L: Society and Ecology Laboratory](#)
- [SOC203: Criminal Procedure, Evidence and Investigation \(4 hours\)](#)  
Introduces principles of evidence and techniques of investigation. Includes constitutional limitations on arrest, search and seizure, the exclusionary rule, interrogation and confessions. Identifies problems of evidence gathering and presentation as well as basic skills and procedures of criminal investigation. May not be counted toward a sociology major or minor. (FA)  
Prerequisites: SOC103, and Junior standing.
- [SOC204: Introduction to Criminal Law \(4 hours\)](#)  
An examination of the nature, variety and sources of criminal law and the relationship of criminal law to theories of punishment and social control. Includes the classification of crimes, as well as the creation, organization and content of criminal law. May not be counted toward a sociology major or minor. (SP) Prerequisites: SOC103.



- [SOC211: Juvenile Delinquency \(4 hours\)](#)  
A general survey and analysis of juvenile delinquency. Includes explanations of juvenile delinquency as deviant behavior with an emphasis on the nature, extent and causes of delinquency. Explores factors such as social structure, school, family and peers that have a major impact on juveniles. Also explores the role of police courts and the nature and history of attempts to control, prevent and treat delinquents. (FA) Prerequisite: SOC101 or 102; for criminal justice majors, SOC103 is required.
- [SOC212: Criminology \(4 hours\)](#)  
A general survey and analysis of crime. Explores criminological theory, societal values with respect to crime, criminal behavior systems and criminal processing systems including police, courts and correctional procedures. (SP) Prerequisite: SOC101 or 102; for criminal justice majors, SOC103 is required.
- [SOC213: Race and Ethnicity Studies in Criminal Justice \(4 hours\)](#)  
General Education S2. This course examines the historical and present role of various races and ethnicities in the criminal justice system. Readings and discussions focus on the statistics and disparities found in arrests, charging, convictions, and sentencing. The course provides rationales for why racial and ethnic minorities appear to be less privileged by systems including law, discrimination, and poverty. (FA) Prerequisite: SOC101, 102 or 103
- [SOC215: Social Gerontology \(4 hours\)](#)  
This introduction to the field of gerontology will provide a comprehensive overview of aging using a sociology lens. This course studies the process of growing older and how society responds to the issues of aging from multiple interdisciplinary perspectives. Focus will be giving to the ways in which sociological theories and research discredit myths about older adults including: diversity, family life, health, retirement, housing, senior programs and services, and death and dying. (SP)
- [SOC217: Social Psychology \(4 hours\)](#)  
The study of how people are influenced by and relate to one another. Explores how membership in groups and organizations influences the thoughts, feelings, and actions of people. Includes topics such as socialization, attitudes, conformity, leadership, power, persuasion, aggression, attraction and collective behavior. (SP) Prerequisite: One course in sociology or psychology.
- [SOC220: Police in Society \(4 hours\)](#)  
A study of the history, goals, organization, structure and role of police in American society. Addresses a range of critical issues facing police and society including police culture, discretion, ethics, use of force, legal boundaries, police work and community relations. This course is not a how-to training course for police officers. May not be counted toward a sociology major or minor. (SP) Prerequisite: SOC103.
- [SOC291: Special Topics in Sociology or Criminal Justice \(4 hours\)](#)  
Study of a selected topic in sociology that is not covered in regular course offerings. Generally takes a lecture and discussion format. The topic will be announced prior to registration. Prerequisite: SOC101 or 102; for criminal justice majors, SOC103 is required.
- [SOC296: Reading and Research in Sociology \(1 TO 3 hours\)](#)  
Research conducted under the supervision of a faculty member and designed to permit individual students or groups of students to research special areas in sociology related to their educational interests and goals. Prerequisites: Sociology or Criminal Justice major or minor, junior standing, and consent of instructor.
- [SOC298: Independent Study in Sociology \(4 hours\)](#)  
A course for students who have completed the necessary background courses in a specific area and wish to work with a faculty member to extend their study in that area. Students considering this course must get the approval of the divisional dean and consent of the instructor during the previous semester at least two weeks prior to registering for the course. Results of the study will be presented to the sociology faculty. Prerequisites: Sociology or Criminal Justice major, junior standing, and consent of the instructor. (FA, SP, SU)
- [SOC301: Social Change and the Future of Society \(4 hours\)](#)

A general examination of the topic of social change. This course studies the role of social change in the development of societies, the consequences of social change for contemporary societies, and how change in various areas of society might affect life in the future. (FA, odd years)  
Prerequisite: SOC101 or 102.

- [SOC302: Complex Organizations and Work Life \(4 hours\)](#)  
Analyzes organizations, work life and their relationship to sustainability. Explores types of organizations, the changing nature of work, work/family conflicts, and how organizations impact workers and societies worldwide. Examines sustainable careers--especially through lab exercises. (FA) Prerequisite: SOC202.
- [SOC305: Marriage & Family-Contmp Society \(4 hours\)](#)  
The study of the changing nature of marriage and family life in the United States. An emphasis on processes and issues that challenge modern family life, including how the family interacts with other major social institutions. Topics include cohabitation, sexuality, mixed families, communication, parenting and divorce. (SP) Prerequisite: Junior standing.
- [SOC307: Corrections in American Society \(4 hours\)](#)  
A study of the history, trend, purpose, organization and practice of corrections in American society. Includes jails, probation, intermediate sanctions, corrections in the community, prisons and supervision after release. Includes issues such as restorative justice, offender rights and incarceration of women, juveniles, special needs populations and members of minority groups. May not be counted toward a sociology major or minor. (FA) Prerequisites: SOC103; 211 or 212.
- [SOC308: Sociological Theory \(4 hours\)](#)  
An examination of the foundations and development of sociological theory from its beginning to the present. Explores the major theories and schools of thought and the relationship between theory and research through the works of important classical and contemporary sociological theorists. (SP) Prerequisites: SOC101 or 102 and junior standing.
- [SOC311: Methods of Social Research \(4 hours\)](#)  
A study of the ways sociologists use data to explore, describe and explain human social life. The focus will be on learning, evaluating and applying the techniques and methodology used in generating, gathering and analyzing social scientific data. (FA, SP) Prerequisite: SOC101 or 102 and junior standing.
- [SOC318: Sociology of Sex Roles \(4 hours\)](#)  
This course explores the social construction of masculinity and femininity and how they are maintained or challenged in interaction. The course also considers patriarchy and how gender intersects with other systems of inequality, such as race and class. (FA, even years)
- [SOC340: Victims and Victimology \(4 hours\)](#)  
This course examines the historical and present role and plight of the victim in the criminal justice system. Students specially will investigate theories of victimization, experiences of victims in the system, victim offender relationship, and crime presentation strategies. In this class, special emphasis will be placed upon restorative justice principles and victim assistance programs. (FA) Prerequisites: SOC103, ENG199 and SOC211 or SOC212.
- [SOC380: Internship in Applied Sociology \(4 hours\)](#)  
An opportunity for majors to work as a sociologist in a designated institution or agency under faculty supervision. Students considering this course must consult with their program adviser during the semester preceding the internship. (FA, SP) Prerequisites: Junior standing, SOC 311, and consent of the instructor.
- [SOC390: Sustainability Field Project \(2 to 4 credits hours\)](#)  
Applied work in a designated organization or setting under faculty and field supervision. Offers three project types, depending on career path: Field Work, Internship, or similar experience in an alternate cultural setting. (FA, SP, SU) Prerequisite: SOC202, SOC302, ENV120, ENV222, consent of instructor and advisor.
- [SOC391: Special Topics in Sociology \(4 hours\)](#)

Study of a selected topic in sociology that is not covered in regular course offerings. Generally takes a lecture and discussion format. The topic will be announced prior to registration.  
Prerequisite: SOC101 or 102.

- [SOC396: Reading and Research in Sociology \(1 TO 3 hours\)](#)  
Research conducted under the supervision of a faculty member and designed to permit individual students or groups of students to research special areas in sociology related to their educational interests and goals. Prerequisites: Sociology or Criminal Justice major or minor, junior standing, and consent of instructor.
- [SOC398: Independent Study in Sociology \(4 hours\)](#)  
A course for students who have completed the necessary background courses in a specific area and wish to work with a faculty member to extend their study in that area. Students considering this course must get the approval of the divisional dean and consent of the instructor during the previous semester at least two weeks prior to registering for the course. Results of the study will be presented to the sociology faculty. Prerequisites: Sociology or Criminal Justice major, junior standing, and consent of the instructor. (FA, SP, SU)
- [SOC399: Capstone in Sociology \(4 hours\)](#)  
Students will review their education experience as sociology majors and explore career paths. Assignments include readings that recap sociology as a field of study and writings that consider the relevance of sociology to professional and social life. (SP) Prerequisite: Senior standing.
- [SOC481: Internship in Criminal Justice \(4 hours\)](#)  
The internship course is a semester long field experience. It provides an opportunity for criminal justice majors to work in a designated agency or institution under faculty and agency supervision. Includes reflection journals to see how your internship connects to other class coursework. (FA, SP, SU) Prerequisites: SOC103, 311, IDS200, ENG199, Senior standing, criminal justice major, consent of internship instructor and a minimum of 2.6 grade point average in courses in the major.
- [SOC499: Capstone - What works in criminal justice policy \(2 hours\)](#)  
Students will explore the historical relevance of criminal justice policies by analyzing the rationale behind the policy and the effect of the policy. Evidence-based principles and criminological theories provide a foundation for this analysis. Students will create a policy proposal to help local criminal justice agencies. (FA, SP, SU) Prerequisites: SOC212, 311, WRI199, senior standing

## Spanish

- [SPA101: Elementary Spanish I \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the Spanish language. Introduction to Hispanic cultures, politics, history, and literature through texts in English or in English translation from Spanish. Weekly out-of-class discussion sections. Conducted primarily in Spanish. (101-FA, 102-FA, SP)
- [SPA102: Elementary Spanish II \(4 hours\)](#)  
A beginning course designed to introduce the student to the basic skills of understanding, speaking, reading and writing the Spanish language. Introduction to Hispanic cultures, politics, history, and literature through texts in English or in English translation from Spanish. Weekly out-of-class discussion sections. Conducted primarily in Spanish. (101-FA, 102-FA, SP)
- [SPA201: Intermediate Spanish I \(4 hours\)](#)  
Review of basic phonetic elements and syntax as an aid to improvement and expansion of good pronunciation and composition. Introduction to Hispanic cultures. Weekly out-of-class discussion sections. Conducted in Spanish. (SPA201-FA; SPA202-SP) Prerequisites: SPA102 or consent of the instructor.
- [SPA202: Intermediate Spanish II \(4 hours\)](#)  
Review of basic phonetic elements and syntax as an aid to improvement and expansion of good pronunciation and composition. Introduction to Hispanic cultures. Weekly out-of-class discussion sections. Conducted in Spanish. (SPA201-FA; SPA202-SP) Prerequisites: SPA201 or consent of the instructor.
- [SPA290: Spanish for Health and Human Services \(2 hours\)](#)  
Focus on health and human service vocabulary, language skills for professional communication, and cross-cultural awareness in order to communicate effectively, both formally and informally. Students participate in hands-on, experiential learning opportunities in the community. Conducted in Spanish. (SP) Prerequisites: SPA202 or consent of instructor.
- [SPA298: Independent Studies in Spanish \(4 hours\)](#)  
Prerequisites: Junior standing and written consent of instructor required for registration. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP)
- [SPA300: Introduction to Spanish Phonetics and Phonology \(4 hours\)](#)  
This course focuses on the sounds of the Spanish language. Through the study of phonetics (the science that examines sounds) and phonology (the organizational system of sounds), students will improve their pronunciation, learn about and recognize different dialects of the language, understand how the phonic system functions at both contrastive and descriptive levels, and gain an appreciation of the phonological development of the language. Prerequisites: SPA202 or instructor's consent. (FA)
- [SPA301: Conversation and Composition I \(4 hours\)](#)  
General Education H1 and CCD. Practice in conversation and composition with emphasis on new and technical vocabulary. Functional grammar review. Reading, discussion and interpretation of more challenging literary texts. Reinforcement of basic linguistic elements such as phonetics and syntax as an aid to further refinement of the four language skills. Conducted in Spanish. (FA) Prerequisites: SPA202 or consent of instructor.
- [SPA302: Conversation & Composition II \(4 hours\)](#)  
This course strengthens skills already learned in Spanish courses by integrating elements of print journalism interviewing, writing and editing. It also expands the cultural knowledge of the students by focusing on their writing on themes of cultural relevance. Conducted in Spanish. (SP) Prerequisite: SPA301 or consent of instructor.
- [SPA305: Spanish for the Professions \(4 hours\)](#)  
This course introduces students to the vocabulary and discourse appropriate to the professions. It develops communicative skills for professional situations (speaking, listening, comprehension, reading, writing, translation, interpretation, and computer skills) and provides cultural and cross-

cultural awareness. Students prepare oral and written reports. Conducted in Spanish. Not to be taken in conjunction with SPA325. (SP) Prerequisites: SPA202.

- [SPA307: Latin American Civilization \(4 hours\)](#)  
General Education H2 and CCD. Lectures and discussion on Latin American cultural history and trends, particularly as they relate to the arts, political thought, and economics. Conducted in Spanish. (FA, odd years) Prerequisites: SPA202.
- [SPA308: Hispanic Civilization \(4 hours\)](#)  
General Education H2 and CCD. Lectures and discussion on Hispanic cultural trends, particularly as they relate to the arts, political thought, and economic conditions. Topics will focus on social movements in Spain or Spain's impact on Latin America, the Caribbean, and the United States. Conducted in Spanish. (FA, even years) Prerequisites: SPA202.
- [SPA325: Spanish for the Professions \(4 hours\)](#)  
This upper-intermediate level course will allow students to explore the diverse career possibilities available to those proficient in Spanish. Building upon previous knowledge of the Spanish language, students will expand their communication, reading, videos, oral presentations, written reports, projects and a variety of interactive activities will expand cross-cultural awareness as well as increase familiarity with the language. During spring break, students will travel to Lima, Peru, to complete volunteer work related to their field(s) of interest. Both pre- and post-reflection will compliment reflection completed during the immersion experience. Not to be taken in conjunction with SPA305. Prerequisite SPA202.
- [SPA398: Independent Studies in Spanish \(2 TO 4 hours\)](#)  
Prerequisites: Junior standing and written consent of instructor required for registration. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP)
- [SPA401: Advanced Conversation \(2 hours\)](#)  
A panorama of customs, life styles, attitudes, and cultural achievements of the Spanish speaking people today. Emphasis on informal conversation with individual interests and projects encouraged. Includes oral and written reports as well as grammar and syntax review. Conducted in Spanish. (SP) Prerequisite: SPA301 or 305 or 307 or 308 or 325 or consent of instructor. (May be taken twice.)
- [SPA480: Internship/Capstone Internship in Spanish \(2 TO 4 hours\)](#)  
Applications of foreign language and culture using language skills in professional settings. This course may also serve as a culminating capstone experience. Facilitates transition from university to career or graduate school through the creation of a resume and portfolio, as well as experience with employment interviews and/or submission of application to graduate school. S/U graded. (FA, SP) Prerequisites: SPA307 or 308, 318 and senior standing.
- [SPA498: Indep Directed/Capstone Study \(2 TO 4 hours\)](#)  
Intensive reading in a specific area of Spanish or Spanish-American literature or culture. Weekly conference conducted in Spanish. Eight credits maximum may apply toward degree. This course may also serve as a culminating capstone experience for seniors. Facilitates transition from university to career or graduate school through the creation of a resume and portfolio, as well as experience with employment interviews and/or submission of application to graduate school. Written proposals of projects must have the prior approval of the divisional dean and consent of the instructor prior to registration. (FA, SP) Prerequisites: SPA307 or 308, 318.

- Sport and Recreation Administration
  - [SRM315: Sport Management Practicum I \(1 hours\)](#)  
This course provides students with an opportunity to observe and apply skills learned in the Sport and Recreation Management program under the direction and supervision of Sport and Recreation Management faculty.
  - [SRM405: Recreational Programming \(4 hours\)](#)  
This course will provide students with the skills to develop, administer and lead a variety of recreation programs. The course will also involve budgeting and marketing/promotion methods and strategies designed for various populations and settings.
  - [SRM407: Facility Operation \(2 hours\)](#)  
This course is designed to bridge the gap between business administration theory and practical application in the fitness and recreation fields. Information provided in this course prepares students for their internship and first professional work experiences.
  - [SRM409: Sports Promotion and Event Planning \(2 hours\)](#)  
The purpose of this course is to acquire an in-depth knowledge about the specialized field of "event management" and to become familiar with management techniques and strategies required for successful planning, promotion, implementation and evaluation of special events within a sport context. To the extent feasible, students will be provided opportunities for direct observation of and hands-on involvement in the planning and staging of one or more special events.
  - [SRM410: Recreation Administration and Supervision \(4 hours\)](#)  
This course will introduce students to a variety of special topics in the field of Recreation with emphasis on recreation management and leadership components. Specifically, students will be exposed to the importance of building community partnerships, researching for grant-funding sources, elements of contractual services, identifying current trends in the field, and characteristics of Gold Medal agencies (what makes them successful).
  - [SRM435: Sport Management Practicum II \(1 hours\)](#)  
This course provides students with an opportunity to observe and apply skills learned in the Sport and Recreation Management program under the direction and supervision of Sport and Recreation Management faculty.
  - [SRM480: Capstone: Internship in Sport Management \(12 hours\)](#)  
The purpose of this course is to enhance and develop personal growth in recreation management knowledge, ethical behaviors, career development, interpersonal skills, problem solving abilities, and personal responsibilities through participation in an internship at a recreation facility. During a 15-week internship, students will spend 30 hours/per week (450 total hours) developing, implementing, and administering recreation and outdoor adventure programs in a college affiliated recreation program. During the 15-week internship, students participating in the internship will come together for seminars. (SU, FA) Prerequisites: REC 405 and 410.

## Theatre Arts

- [THE100: Theatre Participation \(1 hours\)](#)  
Participation in either Mainstage or Studio Season theatre productions as an actor or technician. Prerequisite: consent of instructor. (FA, SP)
- [THE101: Introduction to Theatre Arts \(4 hours\)](#)  
General Education F1. Survey course focusing on the development of theatre, as well as an investigation of the literature and the practitioners of the art form. Course activity includes theatre performance field trips, reading of plays and oral and/or written theatre criticism. (Required course fee) (FA, SP)
- [THE101L: Performance Field Trips](#)  
Laboratory component for THE101.
- [THE102: Oral Interpretation and Presentation \(4 hours\)](#)  
General Education F1. This course focuses on the interpretation, and presentation of various forms of dramatic and traditional literature. Students will become familiar with the basic principles of rhetorical and dramatic analysis and participate in the preparation and performance of many styles of texts, from prose to poetry as well as dramas and more formal literature. (FA, SP)
- [THE111: Introduction to World Dance \(4 hours\)](#)  
General Education F1. Examination of movements in dance within the context of world cultures. This course will include the analysis and practice of dance techniques from various cultures.
- [THE120: Theatre Crew \(2 hours\)](#)  
Student participation in running or preparing the technical aspects of Theatre Arts Program Mainstage or Studio productions. (FA)
- [THE121: Theatre Crew \(2 hours\)](#)  
Student participation in running or preparing the technical aspects of Theatre Arts Program Mainstage or Studio productions. (SP)
- [THE160: Introduction to Fine Arts Administration \(4 hours\)](#)  
An introduction to the theory and practice of arts administration. The course offers historical perspective for the position of the arts in the economy, education, and public policy in the United States and shares a basic framework for developing organizational vision, planning methods, fundraising, marketing approaches and fiscal management. Students are introduced to local arts organizations, their goals and challenges. (every other SP)
- [THE200: Theatre Workshops \(1 TO 2 hours\)](#)  
Intensive practical work in various specialized topics within the Theatre Arts. Course may be repeated as topics will vary. (Required course fee)
- [THE215: Theatre History and Literature I \(4 hours\)](#)  
General Education F2 and CCD. The traditions of the Euro-American theatre are investigated in terms of theatre conventions and drama of the various periods. Prerequisite: THE 101 or consent of instructor. (FA)
- [THE216: Theatre History and Literature II \(4 hours\)](#)  
General Education F2 and CCD. Concentration upon North American and European drama, Asian, Latin American and African theatre conventions and drama are presented. Prerequisite: THE 101 or consent of instructor. (SP)
- [THE291: Special Studies/Topics in Theatre \(1 TO 4 hours\)](#)  
Study of a selected topic not covered in regular course offerings. The topic will be announced prior to registration. Four credits maximum will apply toward degree.
- [THE296: Special Studies/Research in Theatre \(1 TO 4 hours\)](#)  
Advanced research allows individual students or groups of students to undertake special projects related to their program emphasis. Four credits maximum will apply toward degree. Prerequisite: Approval of the divisional dean, departmental chair, and consent of instructor.



- [THE298: Independent Study in Theatre \(1 TO 4 hours\)](#)  
Independent study of selected areas under the supervision of one or more members of the faculty. Required for program honors. (FA, SP) Prerequisite: Approval of the divisional dean departmental chair and consent of the instructor.
- [THE300: Theatre Practicum \(1 hours\)](#)  
Supervised production work in the areas of theatre administration, stage management, scenery, lighting, costuming, or performance. Prerequisite: consent of instructor. (FA, SP)
- [THE301: Contemporary Acting Styles \(4 hours\)](#)  
Explores advanced techniques of acting, voice, and movement for use in modern theatre genres. Prerequisites: THE 102 or consent of instructor.
- [THE302: Period Acting Styles \(4 hours\)](#)  
Explores advanced acting, voice, and movement techniques for use in classic theatre genres. Prerequisites: THE 102 or consent of instructor.
- [THE305: Principles of Production Management \(4 hours\)](#)  
Exploration of theories and practices and further advancement of practical skills employed in the areas of production management and stage management. Prerequisites: THE 120/121 or consent of instructor.
- [THE306: Principles of Theatre Design \(4 hours\)](#)  
Exploration of theories and practices and the further advancement of practical skills in the areas of scenic, lighting, costume, and sound design. Prerequisites: THE 120/121 or consent of instructor.
- [THE307: Directing for the Stage \(4 hours\)](#)  
Practical course in directing for the stage, focusing on script analysis, script preparation, casting concerns, staging techniques, and design strategies, culminating in a directorial concept presentation based on a contemporary play. Prerequisites: THE 101 or consent of instructor.
- [THE308: Writing for the Stage \(4 hours\)](#)  
Practical course in writing for the stage, including a study of basic dramatic structures and the analysis of weekly writing assignments, focusing on structure, style, and imagination, and culminating in a final term project of a one-act play. Prerequisites: THE 101 or consent of instructor.
- [THE380: Internship in Theatre Arts \(1 TO 4 hours\)](#)  
Professional work experience under supervision of selected theatre faculty and professionals; written report required. Instructor approval required prior to registration. (FA, SP, SU)
- [THE390: Theatre Projects \(1 TO 4 hours\)](#)  
Special theatre production or tour experiences established by the program. Announcements of specific projects to be offered are made as they are developed. Instructor consent required.
- [THE391: Special Studies/Topics in Theatre \(1 TO 4 hours\)](#)  
Study of a selected topic not covered in regular course offerings. The topic will be announced prior to registration. Four credits maximum will apply toward degree.
- [THE396: Special Studies/Research in Theatre \(1 TO 4 hours\)](#)  
Advanced research allows individual students or groups of students to undertake special projects related to their program emphasis. Four credits maximum will apply toward degree. Prerequisite: Approval of the divisional dean, departmental chair, and consent of instructor.
- [THE398: Independent Study in Theatre \(1 TO 4 hours\)](#)  
Independent study of selected areas under the supervision of one or more members of the faculty. Required for program honors. (FA, SP) Prerequisite: Approval of the divisional dean departmental chair and consent of the instructor.
- [THE460: Applied Theatre - Capstone Experience \(2 hours\)](#)  
Under faculty supervision students will complete one or more projects in the areas of theatre management, directing, playwriting, dramaturgy, stage management, theatre design, technical



direction, acting, theatre education and the business of theatre. Prerequisite: Senior standing as a Theatre Arts major. (Fa)

- [THE461: Applied Theatre - Capstone Experience \(2 hours\)](#)  
Under faculty supervision students will complete one or more projects in the areas of theatre management, directing, playwriting, dramaturgy, stage management, theatre design, technical direction, acting, theatre education and the business of theatre. Prerequisite: Senior standing as a Theatre Arts major. (Sp)
- [THE480: Internship in Theatre Arts \(1 TO 4 hours\)](#)  
Professional work experience under supervision of selected theatre faculty and professionals; written report required. Instructor approval required prior to registration. (Fa, Sp, Su)
- [THE490: Theatre Projects \(1 TO 4 hours\)](#)  
Special theatre production or tour experiences established by the program. Announcements of specific projects to be offered are made as they are developed.

## Writing

- [ENG199: Reading and Writing in the Sciences \(4 hours\)](#)  
General Education H1. In this class, students will be introduced to a wide range of genres crucial for work in the health and natural sciences, which may include lab reports, literature reviews, abstracts, interview or observational notes, detailed instructions, business letters, and grant proposals. Assignments will help students sharpen their writing skills and develop their professional identities. (SP)
- [WRI380: Internship in Writing \(4 hours\)](#)  
Work experience under professional supervision with opportunities to participate in real-world professional writing. End-of-semester written report required. Prerequisite: 3.0 GPA or higher, or consent of the instructor.
- [WRI391: Topics in Professional Writing \(4 hours\)](#)  
This course provides students with an opportunity to focus on a specific topic not covered in regular course offerings. In the course, students will learn about research methods and develop writing skills germane to the selected topic. The use of long-form, research based writing assignments will help students develop the skills appropriate to upper level standing in the Professional Writing major.
- [WRI496: Writing Major Capstone \(4 hours\)](#)  
The writing major capstone requires students to propose and prepare a semester-long research and writing project. The capstone will have a central theme that students approach using the knowledge and research practices from their secondary major or minor. Class discussion will focus on research methodologies, rhetorical strategies, and the writing process. The final project will provide students with a substantial and polished written document that will facilitate their transition to work in a professional field or to higher education. (FA)