ARCH 1100 - Architecture Survey (1)
Introduction to the University, the Knowlton School of Architecture, and the disciplines of architecture, landscape architecture, and city and regional planning.
Prereq: Not open to students with credit for 1100E, 100, 100H, CRPlan 1100 (100), 1100E, LArch 1100 (100), 1100E, or any survey course. Cross-listed in LArch and CRPlan.

ARCH 1100E - Architecture Survey Honors (1)
Introduction to the University, the Knowlton School of Architecture and the professions of architecture, city and regional planning and landscape architecture. Honors section.
Prereq: Honors standing. Not open to students with credit for 1100, 100, 100H, CRPlan 1100 (100), 1100E, LArch 1100 (100), 1100E, or any survey course. Cross-listed in LArch and CRPlan.

ARCH 2220 - Sustainability and the Built Environment (3)
Introduction to sustainability and the built environment, emphasis on cultural context, including contributing geographic, political, social, and economic factors which influence the form of the constructed world.
Prereq: Not open to students with credit for 201 or 3rd and 4th year Arch majors. GE soc sci human, nat, and econ resources course.

ARCH 2220E - Sustainability and the Built Environment (3)
Introduction to sustainability and the built environment, emphasis on cultural context, including contributing geographic, political, social, and economic factors which influence the form of the constructed world.
Prereq: Honors standing. Not open to students with credit for 201, or 3rd and 4th year Arch majors. GE soc sci human, nat, and econ resources course.

ARCH 2300 - Outlines of the Built Environment (3)
Introduction to architecture, landscape architecture, and planning as cultural practices that shape the physical environment.
Prereq: Not open to students with credit for 200, 1210, or LArch 1210 (200). Cross-listed in LArch.

ARCH 2300E - Outlines of the Built Environment (3)
Introduction to the discipline of architecture and landscape architecture and planning with an emphasis on the physical artifact and its formal and cultural context. Honors section.
Prereq: Honors standing. Not open to students with credit for 200, 1210, LArch 1210 (200) or LArch 2300. Cross-listed in LArch.

ARCH 2310 - Introduction to Design (4)
Introduction to the design of the physical environment through the exploration of form, space, and order using drawing and modeling techniques.
Prereq: Not open to students with credit for 1410, 151, LArch 1410 (202), or LArch 2310. Cross-listed in LArch.

ARCH 2410 - Architectural Design I (6)
Architectural design with an emphasis on technique.
Prereq: Acceptance into B.S. Arch program. Concur: 5610. Not open to students with credit for 241 or 242

ARCH 2420 - Architectural Design II (6)
Architectural design with an emphasis on technique. Continuation of Arch 2410.
Prereq: 2410, or both 241 and 242. Concur: 5610 (only for students pursuing a B.S. in Arch). Not open to students with credit for 243.

ARCH 3194 - Group Studies in Architecture (1-15)
For group-based special studies in architecture within the frame of an instructor guided course.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

ARCH 3410 - Architectural Design III (6)
Architectural design with an emphasis on materiality.
Prereq: 2420 (243). Not open to students with credit for 341 or 342.

ARCH 3420 - Architectural Design IV (6)
Architectural design with an emphasis on materiality. Continuation of Arch 3410.
Prereq: 3410, or both 341 and 342. Not open to students with credit for 343.

ARCH 3420.01 - Architectural Design IV (3)
Architectural design with an emphasis on materiality. Continuation of 3410. Part one of two with 3420.02.
Prereq: 3410 (341 and 342). Not open to students with credit for 343.

ARCH 3420.02 - Architectural Design IV (3)
Architectural design with an emphasis on materiality. Continuation of 3410. Part two of two with 3420.01.
Prereq: 3410 (341 and 342). Not open to students with credit for 343.

ARCH 4193 - Independent Studies in Architecture (1-15)
For students who wish to pursue special independent studies in architecture with the guidance of an advisor/instructor.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

ARCH 4194 - Group Studies in Architecture (1-15)
For group-based special studies in architecture within the frame of an instructor guided course.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

ARCH 4410 - Architectural Design V (6)
Architectural design with an emphasis on organization.
Prereq: 3420 (343). Not open to students with credit for 441 or 442.

ARCH 4420 - Architectural Design VI (6)
Architectural design with an emphasis on organization. Continuation of Arch 4410.
Prereq: 4410 (441 and 442). Not open to students with credit for 443.

ARCH 4780H - Undergraduate Research Methods (3)
Focuses on a broad scope of research methods and the development of architectural design and planning research techniques and skills. Honors section.
Prereq: Honors standing, and major within the Knowlton School of Architecture. Not open to students with credit for 783H.

ARCH 4798 - Study Tour (1-15)
Group international and domestic travel programs. Opportunities tailored to complement the classroom experience.
Repeatable to a maximum of 45 cr hrs or 3 completions.

ARCH 4798E - Study Tour(1-15)
Group international and domestic travel programs. Opportunities tailored to complement the classroom experience.
Prereq: Honors standing. Repeatable to a maximum of 45 cr hrs or 3 completions.

ARCH 4880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar; topics to be announced.
Repeatable to a maximum of 15 cr hrs or 5 completions. Cross-listed in CRPlan and LArch.

ARCH 4999 - Design Studio for Thesis (6)
Topical research/design projects in architecture.
Prereq: Enrollment in Knowlton School of Architecture major.

ARCH 4999H - Architecture Honors Design Studio (6)
Topical research/design projects in architecture. Honors section.
Prereq: Honors standing, and major within the Knowlton School of Architecture. Not open to students with credit for 784H.

ARCH 5110 - History of Architecture I (4)
History of architecture from ancient to contemporary: historical inquiry, physical and cultural influences, theories, and analytical techniques. Continues as 5120E.
Prereq: Honors standing. Not open to students with credit for 600 and 601.

ARCH 5110E - History of Architecture I (4)
History of architecture from ancient to contemporary: historical inquiry, physical and cultural influences, theories, and analytical techniques.
Prereq: Honors standing. Not open to students with credit for 600 and 601.

ARCH 5120 - History of Architecture II (4)
History of architecture from ancient to contemporary: historical inquiry, physical and cultural influences, theories, and analytical techniques. Continuation of 5110.
Prereq: Not open to students with credit for 602.

ARCH 5120E - History of Architecture II (4)
History of architecture from ancient to contemporary: historical inquiry, physical and cultural influences, theories, and analytical techniques. Continuation of 5110.
Prereq: Honors standing. Not open to students with credit for 602.

ARCH 5190 - Topics in Architectural History (3)
Investigation of topics in architectural history.
Prereq: Enrollment in Arch major. Repeatable to a maximum of 33 completions.

ARCH 5194 - Group Studies in Architecture (1-15)
For group-based special studies in architecture within the frame of an instructor guided course.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

ARCH 5210 - Forms of Architectural Theory (3)
Survey of architectural theory that reviews the history of architecture while searching for reinterpretations, strategies, structures, and precedents.
Prereq: 5110 and 5120 (600, 601, and 602), and enrollment in Architecture major; or permission of instructor. Not open to students with credit for 610.

ARCH 5290 - Topics in Architectural Theory (3)
Investigation of topics in architectural theory.
Prereq: Enrollment in Architecture major, or permission of instructor. Repeatable.

ARCH 5290.01 - Topics in Architectural Theory (1.5)
Investigation of topic in architectural history.
Prereq: Enrollment in Arch major, or permission of instructor. Repeatable.

ARCH 5290.02 - Topics in Architectural Theory (1.5)
Investigation of topics in architectural theory.
Prereq: Enrollment in Arch major, or permission of instructor. Repeatable.

ARCH 5390 - Topics in Social and Economic Factors in Architecture (3)
Investigation of topics in social and economic factors in architecture.
Prereq: Enrollment in Architecture major, or permission of instructor. Repeatable.

ARCH 5510 - Building Construction I (3)
Introduction to construction materials and techniques. Continues as 5520.
Prereq: Not open to students with credit for 626 or 627.

ARCH 5520 - Building Construction II (3)
Introduction to construction materials and techniques. Continuation of 5510.
Prereq: Not open to students with credit for 628.

ARCH 5520.01 - Building Construction II (2)
Introduction to construction materials and techniques. Continuation of 626 and 627 for students without credit for 628.
Prereq: Jr or Sr standing in the B.S. Arch program, or Grad standing, or permission of instructor. Not open to students with credit for 628.

ARCH 5590 - Topics in Building Technology (3)
Investigation of topics in building technology.
Prereq: Enrollment in Architecture major, or permission of instructor. Repeatable.

ARCH 5590.01 - Topics in Building Technology (1.5)
Investigation of topics in building technology.
Prereq: Enrollment in Knolwton School of Architecture major, or permission of instructor. Repeatable.

ARCH 5590.02 - Topics in Building Technology (1.5)
Investigation of topics in building technology.
Prereq: Enrollment in Knowlton School of Architecture major, or permission of instructor. Repeatable.

ARCH 5610 - Architectural Representation I (3)
Introduction to architectural representation techniques. Continues as 5620.
Prereq: Enrollment in a major within the Knowlton School of Architecture. Concur: 2410 (for students pursuing a B.S. in Arch). Not open to students with credit for 271 or 272. GE VPA course.

ARCH 5620 - Architectural Representation II (3)
Introductions to architectural representation techniques. Continuation of 5610.
Prereq: 5610, or both 271 and 272. Concur: 2420 (for students pursuing a B.S. in Arch). Not open to students with credit for 273.

ARCH 5690 - Topics in Architectural Description (3)
Investigation of topics in architectural description.
Prereq: Enrollment in Architecture major, or permission of instructor. Repeatable.

ARCH 5710 - Introduction to Architectural Structures I (4)
Statics, strength of materials, and structural systems: principles, elements, concepts.
Prereq: Physics 1200 (111), or equiv, or Grad standing in Architecture. Not open to students with credit for 426, 616, 617, or 618.

ARCH 5798 - Study Tour (1-15)
Group international and domestic travel programs. Opportunities tailored to complement the classroom experience.
Repeatable to a maximum of 45 cr hrs or 3 completions.

ARCH 5810 - Introduction to Environmental, Mechanical, and Electrical Systems in Architecture (3)
Introduction to environmental issues and building service systems for architecture.
Prereq: Physics 1200 (111) or equiv, or Grad standing in Arch. Not open to students with credit for 661 or 662.

ARCH 5880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar; topics to be announced.
Repeatable to a maximum of 15 cr hrs or 5 completions. Cross-listed in LArch and CRPlan.

ARCH 5960 - Design Competition (1-6)
Learn how to work in interdisciplinary teams to develop design proposals to solve problems in the natural or built environment.
Prereq: Jr, Sr, or Grad standing. Repeatable to a maximum of 9 cr hrs or 3 completions. Cross-listed in CRPlan and LArch.

ARCH 6090 - Topics in Urban Design (3)
Investigation of topics in urban design.
Prereq: Grad standing, or permission of instructor. Repeatable.

ARCH 6194 - Graduate Group Studies in Architecture (1-15)
For group-based special studies in architecture within the frame of an instructor guided course.
Prereq: Grad standing, and permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

ARCH 6410 - Accelerated Architectural Design I (6)
Architectural design with an emphasis on form and technique. Continues as 6420.
Prereq: Acceptance in the Master of Architecture Graduate Program. Not open to students with credit for 641 or 642.

ARCH 6420 - Accelerated Architectural Design II (6)
Architectural design with an emphasis on form and technique. Continuation of 6410.
Prereq: 6410, or 641 and 642. Not open to students with credit for 643.

ARCH 6710 - Architectural Structures II (3)
Statics, strength of materials, and structural systems: principles, elements, systems.
Prereq: 5710, or 616 and 617; and Grad standing. Not open to students with credit for 618 or 724.

ARCH 6810 - Environmental, Mechanical, and Electrical Systems in Architecture II (3)
Qualitative and quantitative aspects of environmental issues and building service systems for architecture.
Prereq: 5810, or 661 and 662; and Grad standing. Not open to students with credit for 663.

ARCH 6880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar; topics to be announced.
Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. Cross-listed in CRPlan and LArch.

ARCH 7193 - Graduate Independent Studies in Architecture (1-15)
For students who wish to pursue special independent studies in architecture with the guidance of an advisor/instructor.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

ARCH 7194 - Graduate Group Studies in Architecture (1-15)
For group-based special studies in architecture within the frame of an instructor guided course.
Prereq: Grad standing, and permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

ARCH 7210 - Architectural Theory I (3)
Investigations in architectural theory. Continues as 7220.
Prereq: Grad standing. Concur: 7410. Not open to students with credit for 801 or 802.

ARCH 7220 - Architectural Theory II (3)
Investigations in architectural theory. Continuation of 7210.
Prereq: Grad standing. Concur: 7420. Not open to students with credit for 803.01.

ARCH 7310 - Practice of the Design Professions (3)
Legal, financial, technical, and ethical issues in architectural practice.
Prereq: Enrollment in Master of Architecture Program. Not open to students with credit for 751 or 752.

ARCH 7410 - Advanced Architectural Design I (6)
Architectural design with an emphasis on materiality and organization.
Prereq: 6420 (643), or Enrollment in the Master of Architecture Graduate Program with advanced standing. Not open to students with credit for 841 or 842.

ARCH 7420 - Advanced Architectural Design II (8)
Architectural design with an emphasis on materiality and organization. Continuation of Arch 7410.
Prereq: 7410 (841). Not open to students with credit for 844.01.

ARCH 7798 - Graduate Study Abroad (6)
International study abroad including guided travel, projects, student exchange and immersion experiences.
Prereq: Permission of instructor. Repeatable to a maximum of 12 cr hrs.

ARCH 8210 - Master Practitioner Seminar (3)
Contemporary strategies in architectural practice and criticism as articulated by contemporary architects, theoreticians, and historians.
Concur: 8410. Not open to students with credit for 810.

ARCH 8220 - Exit Review Seminar (3)
Articulation of an architectural position that accounts for design production, disciplinary concerns, and cultural forces.
Concur: 8420. Not open to students with credit for 844.04.

ARCH 8410 - Advanced Architectural Design III (8)
Advanced topics in architectural design.
Prereq: 7420 or 844.01. Not open to students with credit for 844.02 or 844.03.

ARCH 8420 - Advanced Architectural Design IV (8)
Advanced topics in architectural design.
Prereq: 8410 or 844.02. Not open to students with credit for 844.04.

CRPLAN 1100 - CRP Survey (1)
Introduction to the University, the Knowlton School of Architecture and the professions of architecture, city and regional planning, and landscape architecture.
Prereq: Not open to students with credit for 1100, 100, Arch 1100 (100), 1100E, 100H, LArch 1100 (100), 1100E, or any survey course. Cross-listed in Arch and LArch.

CRPLAN 1100E - CRP Survey (1)
Introduction to the University, the Knowlton School of Architecture and the professions of architecture, city and regional planning, and landscape architecture. Honors section.
Prereq: Honors standing. Not open to students with credit for 1100 (100), Arch 1100 (100), Arch 1100E, Arch 100H, LArch 1100 (100), LArch 1100E, or any survey course. Cross-listed in Arch and LArch.

CRPLAN 2000 - Introduction to City and Regional Planning (3)
How transportation, housing, and land use work together to create vibrant cities and regions.
Prereq: Not open to students with credit for 310.

CRPLAN 2100 - Reading the City through History and Law (3)
An intensive investigation of cities' complex cultures and societal rules and the role of history and law in shaping their development.
Prereq: Not open to students with credit for 210 and 350.

CRPLAN 2110 - Creating Innovative Cities and Regions (3)
Successful cities rely on innovation to keep them forward-moving. Emerging trends and unmet market needs are studied to generate innovative planning solutions.
Prereq: Not open to students with credit for 2110H or 110.

CRPLAN 2110H - Creating Innovative Cities and Regions (3)
Successful cities rely on innovation to keep them forward-moving. Emerging trends and unmet market needs are studied to generate innovative planning solutions.
Prereq: Honors standing. Not open to students with credit for 2110 (110).

CRPLAN 2200 - Sustainable Infrastructure Planning (3)
Beneath the streets is a whole system of infrastructure that requires sustainable planning.

CRPLAN 2210 - Sustainable Urbanism (3)
Globalization is changing cities, economies, social networks, and the environment. Technological innovation, entrepreneurship, and policy making guides the future of sustainable cities.
Prereq: Not open to students with credit for 2210E.

CRPLAN 2210E - Sustainable Urbanism (3)
Globalization is changing cities, economies, social networks and the environment. Technological innovation, entrepreneurship and policy making guides the future of sustainable cities.
Prereq: Honors standing. Not open to students with credit for 2210.

CRPLAN 2600 - Designing Communication for Planning (4)
Graphic tools and techniques used for effective visual communication in planning. Projects focus on creative problem solving to communicate planning to a mass audience.

CRPLAN 2700 - Technology in Design (1-5)
Software tools, information theory, and technology to aid in preparing for the professional planning workplace.
Repeatable to a maximum of 20 cr hrs or 4 completions.

CRPLAN 2798 - Comparative Studies in Planning (3)
Planning issues are global in context. Through direct experience studying globalization, migration, sustainability, and public participation, critically understand planning on a global and community scale.
Repeatable to a maximum of 9 cr hrs.

CRPLAN 3000 - Planning Resilient Environments (3)
Environmental resilience requires a comprehensive planning approach. Through planning techniques and practices, identify practical applications for creating resilient environments.
Prereq: Math 1118 (117) or 1152 (152), or permission of instructor. Not open to students with credit for 745 or 722.

CRPLAN 3100 - Analyzing the City (3)
Spatial, economic, and demographic tools aid in forecasting the future of cities and regions. These tools serve as a foundation for imagining the future.
Prereq: 2110 (110), 2110H, or 2000 (310), and acceptance into the CRPlan BS major; or permission of instructor. Not open to students with credit for 3100H or 340.

CRPLAN 3100H - Analyzing the City (3)
Spatial, economic, and demographic tools aid in forecasting the future of cities and regions. These tools serve as a foundation for imagining the future.
Prereq: Honors standing, and 2000 (310), 2110, or 2110H (110), and acceptance to the CRPlan BS major; or permission of instructor. Not open to students with credit for 3100 (340).

CRPLAN 3194 - Group Studies in City and Regional Planning (1-15)
Group-based study of city and regional planning topics within the frame of an instructor guided course.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

CRPLAN 3200 - Place Making (4)
Vibrant public places and sustainable communities are realized when planners visualize and understand spatial relationships at the site, neighborhood and community level.
Prereq: 1100 (110), 1100E, 2000 (310), 2110, 2110E, Arch 1100 (100), 1100E, 100H, LArch 1100 (100), or 1100E, or permission of instructor. Not open to students with credit for 3200E or 330.

CRPLAN 3200E - Place Making (4)
Vibrant public places and sustainable communities are realized when planners visualize and understand spatial relationships at the site, neighborhood and community level.
Prereq: Honors standing, and 1100 (110), 1100E, 2000 (310), 2110, 2110E, Arch 1100 (100), 1100E, 100H, LArch 1100 (100), or 1100E; or permission of instructor. Not open to students with credit for 3200 (330).

CRPLAN 3300 - Planning for and with People (3)
Application of skills and techniques of community participation, emphasizing education, group formation and dynamics, consultation, engagement, and creative change within groups.
Prereq: 2000 (310), 2110 (110), or 2110H (110H), or permission of instructor.

CRPLAN 3400 - Planning for Sustainable Economic Development (3)
Understand the intersection of economics, the environment, and development in order to use planning tools to promote sustainable economic development.
Prereq: Econ 2001.01, 2001.02 (200), or 2001.03H.

CRPLAN 3500 - The Socially Just City (3)
Too many cities are split between the haves and the have-nots. Explore how to reduce poverty, increase access to public services, and create a high quality of life for all residents.
GE soc sci orgs and polities and diversity soc div in the US course.

CRPLAN 3510 - Murder by Design (3)
The way cities are designed influences criminal activity. Crime mapping, siting of businesses, and neighborhood design are explored to create safescapes.
Prereq: Jr standing.

CRPLAN 3520 - Planning Ethics (1)
Planners work in complicated environments that can result in ethical and moral dilemmas. The planning code of ethics provides a framework for decision making.
Prereq: Jr standing.

CRPLAN 3600 - Land Development Planning (3)
Planners shape cities. The land development process requires understanding the impacts of new development and redevelopment in order to reimagine more vibrant sites.
Prereq: Not open to students with credit for 745 or 780.

CRPLAN 3610 - Sex and the City (3)
Explores sex in the city, examining spaces, institutions, and policies that influence sex as a land use.

CRPLAN 3620 - The Underground City (3)
If the surface of the Earth became uninhabitable, people could be forced to live underground to survive. A plan will be conceived and developed in order to perpetuate the human race.
Prereq: 3000.

CRPLAN 4110 - Transportation and Land Use Planning (3)
Communities integrate transportation while promoting economic development and land-use policies to manage growth. Improve the efficiency of travel and contain infrastructure costs.
Prereq: 2110 (110), 2110H, 2000, or 310. Not open to students with credit for 774.

CRPLAN 4191S - Planning Internship (1)
Internship seminar providing students with an opportunity to reflect and learn about career opportunities in city and regional planning.
Prereq: Permission of instructor. Repeatable to a maximum of 2 cr hrs. This course is graded S/U.

CRPLAN 4193 - Independent Studies in City and Regional Planning (1-15)
Study a specialized topic in city and regional planning with an instructor based on mutual interests.
Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

CRPLAN 4194 - Group Studies in City and Regional Planning (1-15)
Group-based study of city and regional planning topics within the frame of an instructor guided course.
Prereq: Jr or Sr standing. Repeatable to a maximum of 15 cr hrs or 4 completions.

CRPLAN 4200 - Arts and Entertainment Planning (3)
Planning for arts and entertainment districts, from the neighborhood art studio to entire cities as entertainment destinations.

CRPLAN 4430 - Workshop in City and Regional Planning (3)
New trends, techniques and processes in planning are generated on a continual basis. This workshop explores the latest advances in planning.
Prereq: Jr standing. Not open to students with credit for 780.

CRPLAN 4597 - The Global Environment in Planning (3)
A review of challenges in developed and developing countries, examining planning issues associated with economic development, social equity, growth and rural development.
Prereq: Not open to students with credit for 597. GE cross-disciplinary seminar course.

CRPLAN 4700 - Urban Transportation Demand Forecasting (3)
Planners forecast traffic demand to relieve congestion and improve the travel experience.
Prereq: Math 1118 (118) or 1152 (152). Not open to students with credit for 775.

CRPLAN 4780H - Undergraduate Research Methods (3)
Quantitative, qualitative and design methods for undergraduate level city and regional planning research. Honors section.
Prereq: Honors standing.

CRPLAN 4798 - Planning Study Abroad (1-15)
Rapid globalization of cities creates new opportunities to explore, investigate and analyze urban development internationally.
Repeatable to a maximum of 15 cr hrs or 2 completions.

CRPLAN 4798E - Study Tour (1-15)
Group international and domestic travel programs opportunities tailored to complement the classroom experience.
Prereq: Honors standing. Repeatable to a maximum of 45 cr hrs or 3 completions.

CRPLAN 4880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar; topics to be announced.
Repeatable to a maximum of 15 cr hrs or 5 completions. Cross-listed in Arch 4880, and LArch 4880.

CRPLAN 4900E - Plan Making (6)
Plan creation focuses on working with real-world clients. Planning knowledge and skills will be applied to generate creative, innovative, and practical solutions.
Prereq: Honors standing, and 3100 or 3100E, and 3300 or both 110 and 340, and acceptance into CRPlan BS major; or permission of instructor. Not open to students with credit for 4900S.

CRPLAN 4900S - Plan Making (6)
Plan creation focuses on working with real-world clients. Planning knowledge and skills will be applied to generate creative, innovative, and practical solutions.
Prereq: 3100 or 3100E, and either 3300 or both 110 and 340, and acceptance into CRPlan BS major; or permission of instructor. Not open to students with credit for 4900E.

CRPLAN 4910S - Realizing the Plan (6)
Apply knowledge and skills to an implementation challenge. Work in consultation with professionals to produce a regulation, policy, or tool for use by the client.
Prereq: 3200 and 4900S, or 330 and 510, or permission of instructor.

CRPLAN 4950 - Professional Planning Skills Development (3)
Professional skills including technical writing, public speaking, portfolio development, conflict resolution, and contracts as essential preparation for practice.
Prereq: 3300, and acceptance to the CRPlan BS major; or permission of instructor. Not open to students with credit for 610. Repeatable to a maximum of 15 cr hrs.

CRPLAN 4980 - Planning for Effective Communication (3)
The ability to effectively frame communications for specific audiences is a valuable skill a planner brings to their career. Build finesse in your communication style.
Prereq: Jr standing. Not open to students with credit for 610.

CRPLAN 4998 - Research in Planning (1-15)
Research on city and regional planning issues.
Repeatable to a maximum of 15 cr hrs or 5 completions.

CRPLAN 4999 - Undergraduate Thesis in City and Regional Planning (6)
Development of topical research/design projects with an interdisciplinary perspective.
Prereq: Enrollment in Knowlton School of Architecture major.

CRPLAN 4999H - Undergraduate Thesis in City and Regional Planning (6)
Course allows for development of topical research/design projects with an interdisciplinary perspective.
Prereq: Honors standing, and 4780H.

CRPLAN 5001 - Introduction to GIS (4)
Introduction to the basic principles of geographic information systems and their use in spatial analysis and information management.
Prereq: Sr or Grad standing. Not open to students with credit for 607. Cross-listed in CivilEn 5001.

CRPLAN 5010 - Historic Preservation Planning (3)
Cities are rich in history. Policies, incentives and planning aid in preserving unique historic character and heritage of cities.
Prereq: Sr or Grad standing. Not open to students with credit for Arch 604.

CRPLAN 5100 - Technology in Design (1-5)
Software tools, information theory, and technology to aid in preparing for the professional planning workplace.
Repeatable to a maximum of 20 cr hrs or 4 completions.

CRPLAN 5193 - Independent Studies in City and Regional Planning (1-15)
Study a specialized topic in City and Regional Planning with an instructor based on mutual interests.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

CRPLAN 5194 - Group Studies in City and Regional Planning (1-15)
Group-based study of City and Regional Planning topics within the frame of an instructor guided course.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 4 completions.

CRPLAN 5200 - Metropolitan and Regional Planning (3)
Cities and towns are becoming increasingly dependent on each other. Progressive approaches to regional planning directly influence the economy and quality of life.
Prereq: Sr or Grad standing. Not open to students with credit for 753.

CRPLAN 5300 - Airport Planning, Design and Development (3)
A comprehensive study of airport planning, design and development, the role of the airport and its components as part of the overall air transportation system, the issues related to the planning, design, and development of the airport and its system.
Prereq: Aviatn 3000. Not open to students with credit for Aviation 674. Cross-listed in Aviatn 5300.

CRPLAN 5400 - Planning for Housing (3)
Housing - including its uses, meaning, design, and role. The creation of a range of housing to support growth and revitalization of cities and regions.
Prereq: Not open to students with credit for 320, 752, or PubAfrs 5400. Cross-listed in PubAfrs.

CRPLAN 5420 - Planning Places with People in Mind (3)
People experience places in many ways. Design, plan and manage places of differernt types and scales to create quality experiences for the public.
Prereq: Sr or Grad standing. Not open to students with credit for 732 or 733.

CRPLAN 5500 - Energy Planning (3)
Energy makes cities run, from renewable and non-renewable sources. Energy is a driving opportunity and constraint in urban development.
Prereq: Grad standing, or 3000. Not open to students with credit for 720.

CRPLAN 5700 - Urban Transportation Demand Forecasting (3)
Introduction and applications for quantitative demand forecasting in urban transportation.
Prereq: Math 1118 or equiv, or Grad standing. Not open to students with credit for 775 or CivilEn 5700 (775). Cross-listed in CivilEn.

CRPLAN 5798 - Planning Study Abroad (1-15)
Rapid globalization of cities creates new opportunities to explore, investigate and analyze urban development internationally.
Repeatable to a maximum of 15 cr hrs or 2 completions.

CRPLAN 5800 - Microfinance for Planners (1)
Why and how microfinance operations have grown to provide financial services to poor and low-income people on a sustainable basis.
Prereq: Jr or Grad standing. This course is graded S/U.

CRPLAN 5880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar; topics to be announced.
Repeatable to a maximum of 15 cr hrs or 5 completions. Cross-listed in Arch and LArch.

CRPLAN 5890 - Workshop in City and Regional Planning (1-15)
Workshop on city and regional planning issues.
Repeatable to a maximum of 15 cr hrs or 5 completions.

CRPLAN 5900 - Food System Planning and the Economy (3)
Examines the social, environmental and economic costs and benefits of our food production, distribution, and consumption.
Prereq: Not open to students with credit for AEDEcon 5900 or PubAfrs 5900. Cross-listed in AEDEcon and PubAfrs.

CRPLAN 5960 - Design Competition (1-6)
Interdisciplinary teams develop design proposals to solve problems in the natural or built environment.
Prereq: Jr, Sr, or Grad standing. Repeatable to a maximum of 9 cr hrs or 3 completions. Cross-listed in Arch and LArch.

CRPLAN 6000 - Historical Foundations of Planning (3)
The people, movements, and principles which have shaped contemporary planning practice.
Historical successes and failures mean for the future of planning.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 643.

CRPLAN 6010 - Innovation in City and Regional Planning (3)
Successful cities are innovative and forward-thinking. Challenges students to focus on generation of
truly innovate ideas to improve cities and regions.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 742.

CRPLAN 6080 - Advanced GIS for Professional Planning Practice (4)
In-depth and hands-on training in GIS applications for city and regional planning.
*Prereq: 5001 and Grad standing, or permission of the instructor. Not open to students with credit for
608 or 609.*

CRPLAN 6100 - Participation and Advocacy in Planning (3)
Planning theories that support the planners role in engaging and advocating for the public. Skills in
public engagement techniques and tools.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 712.

CRPLAN 6191S - Internship Seminar (1)
Provides successful candidates with a broad but intensive learning experience in various areas of city
and regional planning. The program is designed to prepare individuals for professional planning
positions.
*Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 4 cr hrs. This course
is graded S/U.*

CRPLAN 6193 - Independent Studies in City and Regional Planning (1-15)
Study a specialized topic in City and Regional Planning with an instructor based on mutual interests.
*Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. This course
is graded S/U.*

CRPLAN 6194 - Group Studies in City and Regional Planning (1-15)
Group-based study of City and Regional Planning topics within the frame of an instructor guided
course.
*Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 15 cr hrs or 5
completions.*

CRPLAN 6200 - Graphic Visualization (4)
Fundamental skills in graphics and graphic technology commonly used in planning, including on-line,
print, document, poster, and video layout and design.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 702.

CRPLAN 6210 - Planning For Effective Communication (3)
The ability to effectively frame communications for specific audiences is a valuable skill a planner
brings to their career. Build finesse in your communication style.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 4980 (610).

CRPLAN 6300 - Law and Planning I: Land Use (3)
The impact of law on planning, with an emphasis on the regulation of land use.
Prereq: Grad standing, or permission of the instructor. Not open to students with credit for 761.

CRPLAN 6310 - Law and Planning II: Environment and Society (3)
The role of social and environmental justice and other societal considerations in the establishment of a legal framework in planning.
Prereq: 6300 (761), and Grad standing; or permission of instructor. Not open to students with credit for 765 or 766.

CRPLAN 6320 - Seminar in Land Use Policy (3)
Advanced seminar on topics in land use law and policy. Topics vary.
Prereq: 6300 (761), and Grad standing; or permission of instructor. Not open to students with credit for 867. Repeatable to a maximum of 15 cr hrs.

CRPLAN 6350 - The Socially Just City (3)
Poverty reduction, access to public services and improving quality of life are goals to achieving the socially just city.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 3500.

CRPLAN 6400 - Site Planning and Development (4)
Effective site planning can lead to the development of a strong community. Learn the design, environmental and infrastructure elements that are needed to generate a feasible development project.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 745.

CRPLAN 6410 - Planning for Sustainable Development (3)
Sustainable development is a broad concept; translated into reality through relevant theory and the implementation of key design, policy and project based solutions.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 724.

CRPLAN 6420 - Infrastructure Planning (3)
Infrastructure development plans address the planning, budgeting and programming challenges of making cities run.
Prereq: Grad standing, or permission of the instructor. Not open to students with credit for 783.

CRPLAN 6430 - Urban Design (3)
Vibrant cities contribute to quality of life, through ubran design and urban form. Site analysis, context sensitive design and impacts of design choices are explored.
Prereq: Grad standing, or permission of the instructor. Not open to students with credit for 731.

CRPLAN 6440 - Research Methods for Urban Design and Planning (3)
Behavioral research and evaluation (research design, validity, reliability, data gathering techniques) methods for urban design and planning questions.
Prereq: Grad standing, or permission of the instructor. Not open to students with credit for 734.

CRPLAN 6450 - Planning and Evaluating Environments for Human Use (3)
Introduction to user-oriented facility programming and evaluation for planners and designers; application of methods to specify characteristics of a place required to support user behavior.
Prereq: Grad standing, or permission of the instructor. Not open to students with credit for 735.

CRPLAN 6460 - Real Estate Finance for Planners (3)
Realize plans by understanding the financial mechanisms to fund projects. Explore how public-private partnerships create opportunities for affordable housing, downtown revitalization, and neighborhood improvement.
Prereq: Grad standing, or permission of the instructor. Not open to students with credit for 780.

CRPLAN 6500 - Plan Making and Analysis Techniques (3)
Collection and analysis of information used to make plans, including population projections and economic activity.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 762.

CRPLAN 6600 - Spatial Models and Project Evaluation (3)
Examines how people and organizations make decisions about their location and role in space as well as techniques for evaluating public projects.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 763.

CRPLAN 6610 - Grant Writing in the Public Sector (3)
Public officials rely on grants to help fund their grand plans. Planners find grants, prepare proposals, and manage grants to effectively support public projects.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 837 or PubPolM/PubAfrs 880.06. Cross-listed in PubAfrs 7501.

CRPLAN 6620 - Project Management in the Public Sector (3)
Public officials recognize the importance of project management in organization success. Management of complex, high-risk, high-visibility public projects is examined.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 880 or PubAfrs 880.05. Cross-listed in PubAfrs 7555.

CRPLAN 6700 - Technology in Design (1-5)
Software tools, information theory, and technology to aid in preparing for the professional planning workplace.
Repeatable to a maximum of 20 cr hrs or 4 completions.

CRPLAN 6798 - Planning Study Abroad (1-15)
The world is rapidly globalizing. Exploring global cities provides a rich perspective that can be used to evaluate domestic and international planning challenges.
Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

CRPLAN 6810 - Non-motorized Transportation Planning (3)
Safely design a non-motorized transportation network that accommodates all users. Using effective planning strategies to create transportation master plans for pedestrian and bicycle networks.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 776.

CRPLAN 6820 - Urban Transportation Demand Forecasting (3)
Planners forecast traffic demand, relieve congestion, promote bicycling and walking, all to allow people to travel efficiently.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 775.

CRPLAN 6880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar; topics to be announced.
Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. Cross-listed in Arch and LArch.

CRPLAN 6890 - Workshop in City and Regional Planning (1-15)
Workshop on city and regional planning issues.
Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

CRPLAN 6910 - Comprehensive Planning Studio (6)
Application of knowledge and skills to a comprehensive planning process in consultation with professionals to produce a plan for use by a real world client.
Prereq: 6400 (745) and 6500 (762), or permission of instructor. Not open to students with credit for 853.

CRPLAN 6920 - Urban Design/Physical Planning Studio (6)
Improvement of the aesthetics of the built environment through the creation of a physical plan for a portion of a city using an integrative process to solve planning challenges.
Prereq: 6430 (731) or permission of instructor. Not open to students with credit for 851.

CRPLAN 6950 - Transportation Studio (6)
Planning for transportation requires an examination of environmental, social, and economic factors, as well as active engagement of decision makers and transportation users alike.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 852.

CRPLAN 6960 - Sustainability Studio (6)
Planning for sustainability requires systems thinking, strategic solutions and collaborative goverance. Sustainability plans will be generated through active engagement with a client community.
Prereq: 6410 (724), and Grad standing, or permission of instructor. Not open to students with credit for 824.

CRPLAN 6970 - International Development Studio (6)
Cities and regions across the globe are rapidly urbanizing and are facing planning challenges. Plan development focuses on developing context-sensitive solutions.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 749.

CRPLAN 6998 - Research in City and Regional Planning (1-15)
Research on city and regional planning issues.
Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

CRPLAN 6999 - Research for Thesis in City and Regional Planning (1-12)
Research for Thesis in City and Regional Planning.
Prereq: Grad standing, and permission of instructor. Repeatable to a maximum of 12 cr hrs or 12 completions. This course is progress graded (S/U).

CRPLAN 7000 - Contemporary Planning Research (3)
Introduction and overview of topics and techniques in planning research.
Prereq: Grad standing. Not open to students with credit for 871.01.

CRPLAN 7100 - City & Regional Planning Theory (3)
Critical inquiry into the dominant theories related to city and regional planning research and practice.
Prereq: Grad standing. Not open to students with credit for 864.01.

CRPLAN 7110 - Development Theory (3)
Critical inquiry into the classic debates and critiques of development theory related to planning research and practice in developing countries.
Prereq: Grad standing.

CRPLAN 7194 - Group Studies in City and Regional Planning (1-15)
For group-based study of city and regional planning topics within the frame of an instructor guided course.
Prereq: Grad standing, and permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

CRPLAN 7200 - Static Optimization Methods in Planning Research (3)
Discussion of Static Optimization techniques used in contemporary planning research.
Prereq: Grad standing. Not open to students with credit for 870.01.

CRPLAN 7210 - Dynamic Optimization Methods in Planning Research (3)
Discussion of Dynamic Optimization techniques used in contemporary planning research.
Prereq: Grad Standing. Not open to students with credit for 870.02

CRPLAN 7220 - Statistical Methods in Planning Research (3)
Discussion of statistical techniques used in contemporary planning research.
Prereq: Grad standing. Not open to students with credit for 870.03.

CRPLAN 7230 - Foundations of Spatial Models in Planning (3)
Discussion of economic foundations of spatial modeling.
Prereq: Grad standing. Not open to students with credit for 881.

CRPLAN 7240 - Decision Analysis Methods in Planning Research (3)
Discussion of Decision Analysis techniques used in contemporary planning research.
Prereq: Grad standing. Not open to students with credit for 834.

CRPLAN 7250 - Metropolitan and Regional Planning Models (3)
Discussion of modeling techniques used in contemporary metropolitan and regional planning research.
Prereq: Grad standing. Not open to students with credit for 753.

CRPLAN 7260 - Discrete Choice Analysis in Planning (3)
Study of discrete choice models and their applications, model formulation, testing, forecasting, and hands-on experience by estimating discrete choice models with real world data.
Prereq: Grad standing.

CRPLAN 7270 - Environmental and Energy Modeling (3)
Application of related land use, environmental, and energy models to assess the impacts of urban development on the environment.
Prereq: Grad standing. Not open to students with credit for 835.

CRPLAN 7300 - Planning Dissertations and Theses from Start to Finish (3)
Covers the full dissertation/thesis process: topic selection, refinement, proposal development, literature review, methods, data collection/analysis, presenting and publishing, getting a job, life on the job.
Prereq: Grad standing. Not open to students with credit for 871.09.

CRPLAN 7400 - Contemporary Topics in Planning (3)
An examination of current issues in planning from both research and practice points of view.
Prereq: Grad standing. Not open to students with credit for 816. Repeatable to a max of 15 cr hrs.

CRPLAN 7500 - Resolving Social Conflict (3)
Multidisciplinary examination of social conflict, its dynamics and negotiated and consensual resolution; offers broad-based framework for diagnosing and managing conflict; applied to legal, environmental, organizational, and geopolitical conflicts.
Prereq: Grad standing, or permission of instructor. Not open to students with credit for 750, ENR 750, or BusAdm 750. Cross-listed in ENR and BusMHR.

CRPLAN 8193 - Independent Studies in City and Regional Planning (1-15)
Study a specialized topic in City and Regional Planning with an instructor based on mutual interests.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

CRPLAN 8194 - Group Studies in City and Regional Planning (1-15)
Group-based study of City and Regional Planning topics within the frame of an instructor guided course.
Prereq: Grad standing. Repeatable to a maximum of 15 cr hrs or 5 completions.

CRPLAN 8200 - Teaching Practicum in City and Regional Planning (3)
A hands on teaching experience in conjunction with a city and regional planning faculty member. Includes syllabus development, course preparation, lecture, discussion experience, and grading review.
Prereq: Grad standing. Not open to students with credit for 990.

CRPLAN 8300 - General Practicum in City and Regional Planning (3)
Supervised field experience in city and regional planning; analysis and critique of field experience.
Prereq: Grad standing. Not open to students with credit for 990.

CRPLAN 8880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar related to city and regional planning issues.
Prereq: Grad standing. Repeatable to a maximum of 15 cr hrs or 5 completions.

CRPLAN 8890 - Workshop in City and Regional Planning (1-15)
Workshop on city and regional planning issues.
Prereq: Grad standing. Not open to students with credit for 780. Repeatable to a maximum of 15 cr hrs or 5 completions.

CRPLAN 8998 - Research in City and Regional Planning (1-15)
Research on city and regional planning topics.
Prereq: Grad standing. Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

CRPLAN 8999 - Research for Dissertation in City and Regional Planning (1-15)
Research for Doctoral Dissertation Purposes.
Prereq: Grad standing. Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

LARCH 1100 - Landscape Architecture Survey (1)
Introduction to the University, the Knowlton School of Architecture and the professions of architecture,
city and regional planning and landscape architecture.
Prereq: Not open to students with credit for 1100E, 100, Arch 1100 (100), 1100E, 100H, CRPlan
1100 (100), 1100E, or any survey course. Cross-listed in Arch and CRPlan.

LARCH 1100E - Landscape Architecture Survey (1)
Introduction to the University, the Knowlton School of Architecture and the professions of architecture,
city and regional planning and landscape architecture. Honors section.
Prereq: Honors standing. Not open to students with credit for 1100, 100, Arch 1100 (100), 1100E,
100H, CRPlan 1100 (100), 1100E, or any survey course. Cross-listed in Arch and CRPlan.

LARCH 2000 - Introduction to Landscape Architecture (1)
Introduction to the profession of Landscape Architecture and the breadth of Landscape Architectural
projects and practice.
This course is graded S/U.

LARCH 2300 - Outlines of the Built Environment (3)
Introduction to the disciplines of architecture and landscape architecture and planning with an
emphasis on the physical artifact and its formal and cultural context.
Prereq: Not open to students with credit for 200, 1210, or Arch 1210 (200). Cross-listed in Arch.

LARCH 2300E - Outlines of the Built Environment (3)
Introduction to the disciplines of architecture and landscape architecture and planning with an
emphasis on the physical artifact and its formal and cultural context. Honors Section.
Prereq: Honors standing. Not open to students with credit for 200, 1210, Arch 1210 (200) or Arch
2300. Cross-listed in Arch.

LARCH 2310 - Introduction to Design (4)
Introduction to the design of the physical environment through the exploration of form, space, and
order using drawing and modeling techniques.
Prereq: Not open to students with credit for 1410, 151, Arch 1410 (202), or Arch 2310. Cross-listed in
Arch.

LARCH 2367 - Making and Meaning of the American Landscape (3)
Overview and interpretation of influential figures, policies, programs, cultural forces, and
environmental factors that have shaped the American landscape since the Revolutionary War.
Prereq: English 1110 (111) or 110, or equiv. Not open to students with credit for 367 or NatRes 367.
GE writing and comm: level 2 and cultures and ideas course.

LARCH 2367E - Making and Meaning of the American Landscape (3)
Overview and interpretation of influential figures, policies, programs, cultural forces, and
environmental factors that have shaped the American landscape since the Revolutionary War.
Prereq: Honors standing, and English 1110 (111) or 110, or equiv. Not open to students with credit for
367 or NatRes 367. GE writing and comm: level 2 and cultures and ideas course.

LARCH 2410 - Workshop I: Analysis and Communication (3)
Introduction to fundamental techniques of site inventory and analysis, with a focus on representation and building visual arguments.
Prereq: Not open to students with credit for 271 or 272.

LARCH 2420 - Workshop II: Landscape Technologies (3)
Introduction to techniques and technologies of landscape architectural implementation at the site scale, with a focus on schematic level documentation, materials and construction
Prereq: 2410. Not open to students with credit for 321 or 624.

LARCH 2600 - Outlines of Landscape Architecture: Visual Literacy in the Built Environment (3)
Overview of patterns and processes of human design on land in relation to environmental, economic, and socio-cultural forces, with an emphasis on interpretation of visual landscape change.
Prereq: Not open to students with credit for 201. GE VPA course.

LARCH 2600E - Outlines of Landscape Architecture: Visual Literacy in the Built Environment (3)
Overview of patterns and processes of human design on land in relation to environmental, economic, and socio-cultural forces, with an emphasis on interpretation of visual landscape change. Honors section.
Prereq: Honors standing. Not open to students with credit for 201. GE VPA course

LARCH 2780 - Landscape Architecture Topics Seminar (3)
Discussion-based undergraduate course focusing on topics in contemporary landscape practice and research.
Repeatable to a maximum of 6 cr hrs.

LARCH 2920 - Design Studio II: Site Dynamics (6)
Introduction to basic principles and qualities of landscape architectural design, with a focus on the dynamic interaction of environment and people at site scale within the typological framework of gardens and parks.
Prereq: Enrollment in LArch major. Not open to students with credit for 252.

LARCH 2930 - Design Studio III: Social Dynamics (6)
Continuation of the second-year Landscape Architecture design studio sequence, with a focus on urban and suburban sites within the typological framework of campuses, complexes and communities.
Prereq: 2920 (252). Not open to students with credit for 254.

LARCH 3189 - Landscape Architecture Ecological Field Explorations (1-4)
Observation and field investigation of the diverse landscape ecologies of Ohio and the region.
Repeatable to a maximum of 8 cr hrs or 2 completions.

LARCH 3194 - Group Studies in Landscape Architecture (1-15)
Group-based study of landscape architecture topics within the frame of an instructor guided course.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

LARCH 3430 - Workshop III: Advanced Analysis & Communication (3)
Advanced techniques and technologies of landscape analysis and data visualization, with an emphasis on GIS.
Prereq: 2420. Not open to students with credit for 361 or 702.

LARCH 3440 - Workshop IV: Advanced Landscape Technologies (3)
Advanced techniques and technologies of landscape architectural implementation, with a focus on site infrastructure.
Prereq: 3430. Not open to students with credit for 322 and 323.

LARCH 3597 - Sustainability & You (3)
Perspectives on social, environmental, and economic sustainability as it relates to landscape within a global context; problem-solving strategies within an interdisciplinary team environment.
Prereq: Jr or Sr standing. Not open to students with credit for 597. GE cross-disciplinary seminar course.

LARCH 3597E - Sustainability & You (3)
Perspectives on social, environmental, and economic sustainability as it relates to landscape within a global context; problem-solving strategies within an interdisciplinary team environment.
Prereq: Honors standing, and Jr or Sr standing. Not open to students with credit for 597. GE cross-disciplinary seminar course.

LARCH 3940 - Design Studio IV: Landscape Ecology & Planning (6)
Synthesis of landscape ecology and urban ecology principles with landscape planning and design at the district, watershed and/or regional scale, with a focus on integration of advanced inventory and analysis methodologies.
Prereq: 2930 (254). Not open to students with credit for 633.

LARCH 3950 - Design Studio V: Design in Detail (6)
Processes and techniques of design development, detailing and documentation, with a focus on sustainable design practices.
Prereq: 3940 (633 and 356). Not open to students with credit for 658.

LARCH 4191 - Landscape Architecture Internship (0-9)
Internship in landscape architectural design, planning, research, implementation or management.
Prereq: 2920, 2930, 2410 and 2420, and permission of instructor.

LARCH 4193 - Independent Studies in Landscape Architecture (1-4)
For students who wish to pursue special independent studies in landscape architecture, with the guidance of an advisor/instructor.
Prereq: Permission of instructor. Repeatable to a maximum of 8 cr hrs or 8 completions. This course is graded S/U.

LARCH 4194 - Group Studies in Landscape Architecture (1-4)
For group-based study of landscape architecture topics within the frame of an instructor guided course.
Prereq: Permission of instructor. Repeatable to a maximum of 8 cr hrs or 8 completions.

LARCH 4370 - Advanced Design Studies (1-4)
Introduction and development of advanced design methods in Landscape Architecture.
Repeatable to a maximum of 12 cr hrs or 3 completions.

LARCH 4410 - Advanced Landscape Technologies (1-4)
Introduction and development of skills in advanced landscape technologies, including design, communication, modeling, fabrication, implementation and information technologies.
Repeatable to a maximum of 9 cr hrs or 3 completions.

LARCH 4780H - Undergraduate Research Methods (3)
Quantitative, qualitative and design methods for undergraduate level landscape architectural research. Honors section.
Prereq: Honors standing, and major within the Knowlton School of Architecture. Not open to students with credit for 740.

LARCH 4797 - Institutional Study Abroad (6)
Opportunity for study and academic work at a foreign academic institution while receiving Ohio State University credit.
Repeatable to a maximum of 12 cr hrs.

LARCH 4798 - International Studies in Landscape Architecture (6)
International program offering opportunity for guided travel, international projects, student exchange, and immersion experiences.
Prereq: Permission of instructor. Repeatable to a maximum of 12 cr hrs.

LARCH 4798E - Study Tour (1-15)
Group international and domestic travel programs opportunities tailored to complement the classroom experience.
Prereq: Honors standing. Repeatable to a maximum of 45 cr hrs or 3 completions.

LARCH 4880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar; topics to be announced.
Repeatable to a maximum of 15 cr hrs or 5 completions. Cross-listed in CRPlan 4880 and Arch 4880.

LARCH 4890 - Topics in Landscape Architecture Practice (1-4)
Exploration, evaluation and discussion of topical issues in professional practice.
Repeatable to a maximum of 9 cr hrs or 3 completions.

LARCH 4960 - Design Studio VI: Urbanism (6)
Advanced landscape design and planning in relation to sustainable urbanism.
Prereq: 3950 or 356. Not open to students with credit for 457.

LARCH 4970 - Design Studio VII: Synthesis (6)
Advanced landscape architectural research, design and planning synthesizing diverse scales, with an emphasis on interdisciplinary engagement.
Prereq: 4960 or 658.

LARCH 4999 - Design Studio for Thesis (6)
Allows for development of topical research/design projects with an interdisciplinary perspective.
Prereq: Enrollment in Knowlton School of Architecture major.

LARCH 4999H - Honors Design Studio (6)
Allows for development of topical research/design projects with an interdisciplinary perspective.
Prereq: Honors standing, and major within the Knowlton School of Architecture.

LARCH 5194 - Group Studies in Landscape Architecture (1-15)
For group-based study of landscape architecture topics within the frame of an instructor guided course.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 4 completions.

LARCH 5367 - Landscape Architecture Professional Practice (3)
Overview of landscape architectural professional practice principles, standards and codes, with a focus on writing and communication.
Prereq: Jr, Sr, or Grad standing, and enrollment in LArch major. Not open to students with credit for 663

LARCH 5610 - History & Theory: Gardens (3)
Contemporary history and theory of landscape architecture practice and criticism, with an emphasis on evaluating conceptual, formal and performative aspects of designed landscapes. Focus on gardens.

LARCH 5610E - History & Theory: Gardens (3)
Contemporary history and theory of landscape architecture practice and criticism, with an emphasis on evaluating conceptual, formal and performative aspects of designed landscapes. Focus on gardens.
Prereq: Honors standing.

LARCH 5620 - History & Theory: Parks (3)
Contemporary history and theory of landscape architecture practice and criticism, with an emphasis on evaluating conceptual, formal and performative aspects of designed landscapes. Focus on parks.
Prereq: Not open to students with credit for 603.

LARCH 5620E - History & Theory: Parks (3)
Contemporary history and theory of landscape architecture practice and criticism, with an emphasis on evaluating conceptual, formal and performative aspects of designed landscapes. Focus on parks.
Prereq: Honors standing.

LARCH 5630 - History & Theory: Urbanism (3)
Contemporary history and theory of landscape architecture practice and criticism, with an emphasis on evaluating conceptual, formal and performative aspects of designed landscapes. Focus on Urbanism.

LARCH 5630E - History & Theory: Urbanism (3)
Contemporary history and theory of landscape architecture practice and criticism, with an emphasis on evaluating conceptual, formal and performative aspects of designed landscapes. Focus on urbanism.
Prereq: Honors standing.

LARCH 5798 - Study Tour in Landscape Architecture (1-15)
Program offering opportunity for guided travel, field study and on-site investigation in the United States and abroad.
Repeatable to a maximum of 45 cr hrs or 3 completions.

LARCH 5880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar; topics to be announced.
Repeatable to a maximum of 15 cr hrs or 5 completions. Cross-listed in CRPlan and Arch.

LARCH 5960 - Design Competition (1-6)
Learn how to work in interdisciplinary teams to develop design proposals to solve problems in the natural or built environment.
Prereq: Jr, Sr, or Grad standing. Repeatable to a maximum of 9 cr hrs or 3 completions. Cross-listed in Arch and CRPlan.

LARCH 6194 - Group Studies in Landscape Architecture (1-15)
For group-based study of landscape architecture topics within the frame of an instructor guided course.
Prereq: Grad standing and permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

LARCH 6400 - Landscape Architecture Immersion (2)
Accelerated introduction to topics and techniques of landscape architecture through readings, field visits and instructional workshops.
Prereq: Grad standing.

LARCH 6410 - Workshop I: Analysis and Communication (3)
Introduction to fundamental techniques of site inventory and analysis, with a focus on graduate level representation and building visual arguments.
Prereq: Grad standing. Not open to students with credit for 670.

LARCH 6420 - Workshop II: Landscape Technologies (3)
Introduction to techniques and technologies of landscape architectural implementation at the site scale, with a focus on schematic level documentation, materials and construction.
Prereq: 6410 and Grad standing. Not open to students with credit for 702.

LARCH 6430 - Workshop III: Advanced Analysis and Communication (3)
Advanced techniques and technologies of landscape analysis and data visualization, with an emphasis on GIS.
Prereq: 6420, and Grad standing. Not open to students with credit for 620, 622, 626, 670, 672, and 702.

LARCH 6440 - Workshop IV: Advanced Landscape Techologies (3)
Advanced techniques and technologies of landscape architectural implementation, with a focus on site infrastructure.
Prereq: 6430, and Grad standing. Not open to students with credit for 620, 622, 626, 670, 672, and 702.

LARCH 6880 - Interdepartmental Seminar (1-15)
Interdepartmental seminar; topics to be announced.
Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. Cross-listed in CRPlan and Arch.

LARCH 6910 - Design Studio I: Site Design (6)
Introductory design studio with a focus on design process at the site scale.
Prereq: Grad standing. Not open to students with credit for 640.

LARCH 6920 - Design Studio II: Dynamic Systems (6)
Synthesis of landscape ecology and site planning principles at the community and/or watershed scale, with a focus on integration of advanced inventory and analysis methodologies.
Prereq: 6910, and Grad standing. Not open to students with credit for 642 or 644.

LARCH 6999 - Thesis in Landscape Architecture (1-8)
Individual thesis development under guidance of advisor.
Prereq: Permission of instructor. Repeatable. This course is progress graded (S/U).

LARCH 7189 - Ecological Field Explorations (2)
Offers exposure to the varied landscape ecologies of Ohio and surrounding states through series of day trips and extended tours.
Repeatable to a maximum of 6 cr hrs.

LARCH 7191 - Graduate Internship in Landscape Architecture (8)
Graduate internship in landscape architecture.
Repeatable to a maximum of 16 cr hrs.

LARCH 7193 - Independent Studies in Landscape Architecture (1-4)
For students who wish to pursue independent studies in landscape architecture, with the guidance of an advisor/instructor.
Prereq: Permission of instructor. Repeatable to a maximum of 8 cr hrs or 8 completions. This course is graded S/U.

LARCH 7194 - Group Studies in Landscape Architecture (1-4)
For group-based study of landscape architecture topics within the frame of an instructor guided course.
Prereq: Permission of instructor. Repeatable to a maximum of 8 cr hrs or 8 completions.

LARCH 7370 - Landscape Design Studies (1-4)
Advanced studies in graduate landscape architectural design.
Repeatable to a maximum of 12 cr hrs or 3 completions.

LARCH 7410 - Landscape Technologies (1-3)
Advanced studies in landscape technologies.
Repeatable to a maximum of 9 cr hrs or 3 completions.

LARCH 7453 - Visual Media Exploration (1-3)
Advanced tools and techniques of landscape architectural visual media.
Repeatable to a maximum of 9 cr hrs or 3 completions.

LARCH 7500 - Landscape Materials Exploration (1-3)
Advanced graduate study of landscape materials.
Prereq: 6440 or 626. Repeatable to a maximum of 6 cr hrs or 2 completions

LARCH 7600S - Graduate Landscape Topics in Research & Theory (1-3)
Advanced topics in graduate research and theory.
Prereq: 7780 (740). Repeatable to a maximum of 12 cr hrs or 4 completions.

LARCH 7700 - Professional Topics (1-3)
Investigation into current and future professional practice models, tools and methods.
Repeatable to a maximum of 6 cr hrs or 2 completions.

LARCH 7780 - Research Methods in Landscape Architecture (3)
Quantitative, qualitative and design methods for graduate level landscape architectural research and documentation.
Prereq: Grad standing. Not open to students with credit for 740.

LARCH 7797 - Institutional Graduate Study Abroad (6)
Study and academic work at a foreign academic institution.
Repeatable to a maximum of 12 cr hrs.

LARCH 7798 - International Graduate Study Abroad in Landscape Architecture (6)
International study abroad including guided travel, projects, student exchange and immersion experiences.
Repeatable to a maximum of 12 cr hrs.

LARCH 7890 - Seminar in Landscape Architecure (3)
Advanced topics in landscape architectural practice, theory and research.
Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 18 cr hrs.

LARCH 7930 - Design Studio III: Urban Landscape (8)
Design of the urban environment in relation to sustainable urbanism principles and practices.
Prereq: 6920, and Grad standing. Not open to students with credit for 754. Repeatable to a maximum of 16 cr hrs.

LARCH 7940 - Design Studio IV: Global Issues (8)
Advanced graduate landscape architectural research, design and planning synthesizing diverse scales, with an emphasis on international and interdisciplinary engagement.
Prereq: 7930, and Grad standing. Not open to students with credit for 750 and 752. Repeatable to a maximum of 16 cr hrs.

LARCH 7950 - Design Studio V: Design in Detail (8)
Processes and techniques of landscape architectural design development, detailing and documentation, with a focus on sustainable design practices.
Prereq: 7940, and Grad standing. Not open to students with credit for 658. Repeatable to a maximum of 16 cr hrs.

LARCH 8990 - Thesis Pro-Seminar (3)
Seminar-based, guided development of individual thesis projects.
Prereq: 7780, and Grad standing. Not open to students with credit for 760.