ARCH 100: Architecture and Ideas
3 Credits

General introduction to world architecture, emphasizing the relationship between concepts, philosophies, values and ideologies in shaping the built environment. ARCH 100 Architecture and Ideas (3) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course introduces architecture and urbanism for a general audience. It presents key concepts that have shaped the built environment, and provides an ongoing framework for evaluations of what makes a good building or city. The material discussed is taken from prehistory to the present, and encompasses both major works of architecture and consideration of common building types and contexts. Although monuments and philosophies from the Western tradition predominate, it brings in issues and examples of global scope as well. The course is structured around a set of themes. These include: how architecture embodies spiritual beliefs; affects private and community life; evolving definitions of the architect; and how ideas about aesthetics, technology, tradition, and other cultural forces shape buildings and influence diverse, often conflicting notions of what constitutes “good” architecture. The topics discussed will demonstrate multiple ways of understanding buildings and cities. Lectures and assigned readings explore significant illustrative structures, design theories, and the cultural and intellectual contexts in which they emerge. Through the lectures and readings, students will become familiar with an extensive set of architectural works, as well as a wide range of influential architectural concepts, authors, and texts. ARCH 100 will ultimately help students analyze and judge buildings and the arguments about them critically, and better understand buildings and cities as ideologically charged artifacts that influentially structure human experience.

General Education: Arts (GA)
GenEd Learning Objective: Crit and Analytical Think
GenEd Learning Objective: Global Learning
GenEd Learning Objective: Integrative Thinking
GenEd Learning Objective: Soc Resp and Ethic Reason

ARCH 121: Visual Communications I
2 Credits

Development of two and three-dimensional graphic communications skills and techniques required for the practice of architecture. ARCH 121 Visual Communications I (2) The course is designed to introduce two and three-dimensional graphic communication skills. Assignments will develop the student’s understanding and skills associated with the hand-drawing techniques used in the practice of architecture. Exercises provide exposure to the variety of representational techniques available to architects for the visual communication of design ideas and design documentation. Visual Communications I is organized as an interactive studio environment combining lectures and demonstrations with individual instruction. The basic concepts and theory of documenting, representing, and presenting architecture will be introduced through a series of lectures, seminars, and examples. In studio, skills will be developed through project workshops. Instruction includes working sessions, individual desk reviews, software and hardware demonstrations, and group discussions.

Prerequisite: Students must earn a C or better in: ARCH 131S and ARCH 121; Concurrent: ARCH 132

ARCH 130A: Basic Design and Research I
3-6 Credits/Maximum of 6

Multidimensional design and perceptual development. Formulation of abstracted concepts and logical visual models.

Prerequisite: Architectural Engineering majors only

ARCH 131: Basic Design Studio I
4 Credits

An introduction to the basic concepts, methods, and skills of architectural design in a project-based, active learning, studio environment. ARCH 131 Basic Design Studio I (4) This course is an introduction to the basic concepts, methods, and skills of architectural design. As a “studio” it is a project-based, active learning course where the development and evaluation of the work is driven by a critical dialogue with the instructor and one’s classmates. This course is the first in a series of design studios that serve as the central thread throughout the curricula of the Architecture program. In ARCH 131, students gain knowledge about the discipline of design, develop skills of design and communication, and foster a capacity for judgment - the ability to make appropriate choices and decisions regarding design questions. As a laboratory, the design studio provides the opportunity to apply and explore the knowledge and experience gained in other courses. ARCH 131 is an intensive course that encourages creativity and industry on the part of the students. Its design projects are open-ended; there are no single “right answers.” It demands energy, creativity, the willingness to take risks, and introspection. Each student is expected to be open to a diverse range of ideas, values and solutions. The student is invited to view the studio experience as an opportunity to explore, discover, and invent. The studio is divided into separate sections, each led by one studio instructor. All sections are assigned a series of common projects and exercises; however, each section instructor will establish particular and unique assignments, and criteria for each project. This introduces students to the rich variety of
possibilities in architectural communication and design. The primary form of evaluation and grading for this class is the "review and critique" during which students present their work to the class and then receive comments and recommendations for improvement. When assessing the student work, the instructors will consider the students performance in the following areas: 1. Conceptual Strength: The intentions and ideas that inspire the work. 2. Design Development: The energy, effort, and growth demonstrated throughout the course of the project. 3. Product: The tangible quality of the final product as a demonstration of the student's level of craftsmanship and mastery of the skills introduced in class. 4. Student Preparedness: In-class critiques, pin-ups, and reviews. 5. Student Participation: Students are expected to actively participate and be constructively engaged in class discussions, critiques, and reviews.

**Prerequisite:** or concurrent ARCH 121

**First-Year Seminar**

ARCH 132: Basic Design Studio II

4 Credits

Continuation of ARCH 131 which further explores basic concepts, methods, and skills of architectural design with an emphasis on craftsmanship. ARCH 132 Basic Design Studio II (4) This course is a continuation of ARCH 131 and shares the same goals, methods, and means of evaluation. However, it builds upon the foundation of fundamental knowledge and skills delivered in the previous course and demands that the students expand their ability to tackle more difficult and complex problems of architectural design. The focus of this course is on "craftsmanship" and the methods and techniques of "making and building." Students are expected to thoroughly consider the implications of materials, construction, and detailing as they relate to their overall design intentions. ARCH 132 is an intensive course that encourages creativity and industry on the part of the students. Its design projects are open-ended; there are no single "right answers." It demands energy, creativity, the willingness to take risks, and introspection. Each student is expected to be open to a diverse range of ideas, values and solutions. The student is invited to view the studio experience as an opportunity to explore, discover, and invent. The studio is divided into separate sections, each led by one studio instructor. Each section instructor will establish particular and unique assignments, and criteria for each project. This introduces students to the rich variety of possibilities in architectural communication and design. When assessing the student work, the instructors will consider the students performance in the following areas: 1. Conceptual Strength: The intentions and ideas that inspire the work. 2. Design Development: The energy, effort, and growth demonstrated throughout the course of the project. 3. Product: The tangible quality of the final product as a demonstration of the student's level of craftsmanship and mastery of the skills introduced in class. 4. Student Preparedness: In-class critiques, pin-ups, and review. 5. Student Participation: Students are expected to actively participate and be constructively engaged in class discussions, critiques, and reviews.

**Prerequisite:** Students must earn a C or better in: ARCH 131S and ARCH 121; Concurrent: ARCH 122

ARCH 197: Special Topics

1-9 Credits/Maximum of 9

Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
accomplishing development is through the design of smaller buildings/environments. To introduce the pragmatic and expressive aspects of architectural design and integrate visual communication with the design process. The emphasis is on developing comprehensive architectural thought, on the foundations of skill and knowledge essential for designing more "complex" buildings in later years, and making the students aware of the multiplicity of factors involved in the design process and their civic responsibility in making informed choices. Thus, the pervasive issue of meaning in architecture is given a high priority and is interwoven in all stages of design exploration.

**Prerequisite:** Students must earn a C or better in: ARCH 132 and ARCH 122; Concurrent: ARCH 203, and A E 421

**ARCH 232:** Architectural Design II

6 Credits

Design of limited environments within defined constraints. ARCH 232 Architectural Design II (6) The second-year design curriculum emphasis is on introducing the student to the complexity of the architectural whole. The curriculum bridges the abstract design principles taught in the first year and the ability to put together a large building, the focus in the third-year. The objectives are to create an understanding of architectural elements and develop a sensitivity and awareness required for valid interpretations as well as to develop a reflective and critical design process with emphasis on the individual ability to articulate ideas. The major means of accomplishing development is through the design of smaller buildings/environments.

**Prerequisite:** Students must earn a C or better in: ARCH 231, and ARCH 203, and A E 421; Concurrent: ARCH 204, and A E 422

**ARCH 296:** Independent Studies

1-18 Credits/Maximum of 18

Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.

**ARCH 297:** Special Topics

1-9 Credits/Maximum of 9

Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

**ARCH 299:** Foreign Studies–Architecture

1-15 Credits/Maximum of 15

Individual or group instruction conducted in a foreign country.

International Cultures (IL)
ARCH 311: Architectural and Planning Theories

3 Credits

Architectural theory course with a strong focus on the reading and writing of essays about architecture and related fields. ARCH 311 Architectural and Planning Theories (3) ARCH 311 is a required course in the BARCH curriculum. The central goal of this course is to foster critical-thinking skills, in conjunction with the ability to develop and articulate theoretical positions related to the design, practice, and historical evolution of architecture, both verbally and in writing. ARCH 311 is a writing intensive seminar course fulfilling the University's Writing Across the Curriculum (WAC) requirement. Students will be introduced to various topics pertaining to advanced architectural theory. Students will critically read, then discuss significant works with the instructor. Lectures by the instructor will also be presented, discussed and analyzed. Writing assignments are utilized as instruments for learning the subject matter, methods of inquiry, and the types of writing typical of the discipline of architecture. The course format will also involve lectures by the instructor as well as presentations by the students related to past, present, and speculative architectural theories of importance to the field. In addition, students will complete writing assignments that demonstrate the development of a critical stance or idea, proficiency in critical analysis, and the use of established research techniques, citation of sources, and writing formats.

Prerequisite: ENGL 015 or ENGL 030; Students must also earn a C or better in: ARCH 210 and ART H201 and ART H202 Writing Across the Curriculum

ARCH 312: Critical Postcolonial and Contemporary Perspectives in South Asian Architecture

3 Credits

This course will examine critical postcolonial and contemporary architectural issues in South Asia in the context of cultural globalization today. ARCH 312 Critical Postcolonial and Contemporary Perspectives in South Asian Architecture (3)This course will examine the evolution of the cultures and architectures of South Asia through their encounters with colonialism and the postcolonial analysis of architectural development in the region. It will provide an introduction to precolonial architecture and urbanism in South Asia using methodologies of cultural studies via an examination of Buddhist, Hindu, Islamic (Mughal), and Western influences. The course will introduce students to the significant variety of South Asia's architectural accomplishments and encourage them to discuss broader theoretical issues in the context of cultural globalization and their implications for contemporary architectural thought and practice. References to indigenous architecture and techniques will be an integral part of the course, as will be examples of colonial architecture, especially the works of Edwin Lutyens. In the context of globalization during the post-colonial period, three important planning and building design projects undertaken by Western architects in South Asia will become the means to segue into contemporary architectural issues and the impact of Modernist thinking on South Asian architecture: Le Corbusier's master plan and building designs for Chandigarh - the Kahn's design for the monumental second capital complex in Dhaka, Bangladesh, and the master plan for Islamabad, the capital of Pakistan, by Constantinos Doxiades. In addition, the works of such South Asian architects such as Charles Correa, Balkrishna Doshi, Raj Rewal, Geogrey Bawa, Maxharul Islam, and Nyyar Dada, will be included in the lectures and discussions. The overall methodology will not be strictly chronological; rather, broad themes will be addressed during the course of the semester. This approach will enable a clear and substantive illustration of relationships between theory and practice in South Asia. It will also help students recognize the inevitable partiality and incompleteness of such theoretical descriptions - compelling as they may be - with regard to actual historical phenomena.

ARCH 316: Analysis of Human Settlements: Cities

3 Credits

Analysis of the interrelated factors which determined and shaped the various types of early cities through the nineteenth century.

Bachelor of Arts: Arts
General Education: Arts (GA)

ARCH 317: Theory of Modern Japanese Architecture

3 Credits

Introduction to the development of modern Japanese architecture from the Meiji Restoration of 1868 to the present day. ARCH 317 Theory of Modern Japanese Architecture (3)ARCH 317 outlines a lineage of ideology in Japanese architectural discourse in order to examine reciprocal interactions between Japan and the West in the development of modern Japanese architecture from the Meiji Period (1868-1912), through the Metabolism of the 60's, to the present day. The concept of "tradition" itself is an invention of the Meiji (modern) era. Through this notion, the course will introduce students to crucial moments in the development of Japanese architecture, while making parallel references to the key developments in the West. Inversely, examples of traditional Japanese architecture will be introduced as counterpoint for the modern. Several topics such as the evolution of Japanese symbolic and spatial traditions in art, architecture, and landscape architecture (gardens) will be discussed. While discussing the evolution of Japanese culture, aesthetics and religions, the influences of China and Korea will be introduced, thus increasing students’ familiarity to the East. A brief examination of Western architects paralleling the course content will also be presented. The key figures to be discussed during the class include Kenzo Tange, Kisho Kurokawa, Arata Iozzaki, Fumihiko Maki, Tadao Ando, Shin Takamatsu, Toyo Ito, Kazuyo Sejima and Shigeru Ban. Key Western architects, including Bruno Taut, Walter Gropius, Frank Lloyd Wright, and Le Corbusier, will also be discussed. In addition, several broad themes such as geography, climate culture, and symbolic and spatial traditions in art will be introduced. Eastern values and ethics very incongruent from those of the West and their impact on architecture will be presented and discussed. Specific globalization, the resultant reciprocal and transformative cross-cultural interactions in the development of modern Japanese architecture, and the unique process of "Japanization" in which ideas from the West are adapted, refined, and absorbed into Japanese architecture through specific buildings and architects. Students in this course will be expected to become more familiar with Eastern culture; comprehend basic principles behind Japanese architecture and gardens; understand relevant terminology associated with Japanese culture, art, gardens, and architecture; and become more aware of the reciprocal and transformative cross-cultural interactions in architecture.

ARCH 331: Architectural Design III

6 Credits

Development of the design process through organizational methodologies, based on physical, functional, and social-behavioral
buildings, yet we lack a thoughtful theoretical (and poetic) construct that
have been creatively used in the design and construction of new
Since the literal fall of the Roman Empire, reclaimed building materials
context for the activity of building material reclamation and reuse.

In addition to being a practical hands-on seminar, this course is also
of reclamation and explore the design possibilities of reused material.
The course will consist of a variety of small-scale design-build projects,
Through active and applied learning, students will gain experience in
operation.  Emphasis is placed on the "Building Thoroughly Considered." The second semester of the third-
year design studio course is a continuation of the rigorous development of the architectural process started in the third year, first semester studio.
ARCH 332 extends and deepens the understanding of the "thoroughly considered" building begun in ARCH 331. Students will strive to develop
architectural totality search for thoughtful decisions and sound judgments. Students continue the process of integrating the abstraction
of the basics with the pragmatics of the built world. The student at the
completion of this year should understand what a building is and how it
responds to human needs in terms of cultural meaning, physical reality,
operational prerequisites and construction.

Prerequisite: Students must earn a C or better in: ARCH 232 and
ARCH 204 and A E 422; Concurrent: A E 211
ARCH 332: Architectural Design IV
6 Credits
Development of the design process through organizational
methodologies, based on physical, functional, and social-behavioral
determinants. ARCH 332 Architectural Design IV (6) Development of the
design process through organizational methodologies, based on physical,
functional, and social-behavioral determinants. Emphasis is placed on
"The Building Thoroughly Considered." The second semester of the third-
year design studio course is a continuation of the rigorous development of the architectural process started in the third year, first semester studio.
ARCH 332 extends and deepens the understanding of the "thoroughly considered" building begun in ARCH 331. Students will strive to develop
architectural totality search for thoughtful decisions and sound judgments. Students continue the process of integrating the abstraction
of the basics with the pragmatics of the built world. The student at the
completion of this year should understand what a building is and how it
responds to human needs in terms of cultural meaning, physical reality,
operational prerequisites and construction.

Prerequisite: Students must earn a C or better in: ARCH 331 and A E 211;
Concurrent: A E 424
ARCH 399: Foreign Studies
1-12 Credits/Maximum of 12
Courses offered in foreign countries by individual or group instruction.

International Cultures (IL)
ARCH 410: Building Material Reclamation & Reuse
3 Credits
This course is a very hands-on, project-based seminar focusing on
the theory and practice of building material salvage and recycling.
Through active and applied learning, students will gain experience in
handling, preserving and adding value to salvaged building materials.
The course will consist of a variety of small-scale design-build projects,
where students will learn and practice the methods and techniques
of reclamation and explore the design possibilities of reused material.
In addition to being a practical hands-on seminar, this course is also
intended to explore and examine the broader historical and theoretical
context for the activity of building material reclamation and reuse.
Since the literal fall of the Roman Empire, reclaimed building materials
have been creatively used in the design and construction of new
buildings, yet we lack a thoughtful theoretical (and poetic) construct that
supports reclamation activity other than the simple and obvious ethics
of sustainability. Themes to be explored: ruins, spoglia, palimpsests,
weathering, memory and the mnemonic function of architecture.

Prerequisite: 5th Semester standing
ARCH 412: Integrative Energy and Environmental Design
3 Credits
Concepts and strategies for the environmentally conscious design of the
built environment.

ARCH 419: Design Research and Architectural Programming
3 Credits
ARCH 419 prepares undergraduate Architecture students with the
skills and tools to conduct research contributing to the pursuit of an
architectural idea in a rigorous, in-depth manner, and then subsequently
utilize the acquired knowledge in the development of the idea through
the completion and presentation of a thoroughly considered architectural
design project (building, component or system). This course will help
students prepare for their independent or directed design research studio
through the exploration of foundational approaches and methodologies
in the field. It will foster in-depth design inquiry and research; build
upon and reiterate design awareness, skills, and methods introduced
in previous years; and introduce, discover and develop new ones. This
course will help prepare students to identify significant design project
topics, select the proper methodology, and engage in independent or
directed research.

Prerequisites: ARCH 332

ARCH 431: Architectural Design V
6 Credits
Continuation of ARCH 331 and ARCH 332, with design and research
in program option areas. ARCH 431 Architectural Design V (6) The
fourth-year architecture studio emphasizes the development of skills
in research, documentation, analysis and presentation of project-
related physical and cultural information. The studio will investigate
the implications of a rigorous predesign process in the design of
architecture. The studio curriculum seeks to investigate the role
of the architect in urban design, especially the design relationship
between individual buildings, groups of buildings, exterior spaces,
streets and streetscapes. Students will explore the synthesis of
individual landmark buildings, building groups, urban landscape and
service systems. The studio explores the difference between the
roles and responsibilities of public and private clients. In particular
the implications of establishing levels of control within the built
environments, such as design guidelines, circulation systems and utility
networks. Emphasis will be placed on the development of the following
design skills: &bull; Cooperation and collaboration in research and design.
&bull; Understanding the implications of existing patterns on subsequent
design. &bull; Understanding attitudes toward contexts: cultural,
physical, economic, personal, political, organizational (bureaucratic).
* Integration of scale: Development of logics (orders) for the use of
the site and continuity of logic across scales of building. * Developing
culturally meaningful relationships between the ordering of land-use
and space throughout related buildings. * Design of exterior space using
architectural relationships between multiple buildings * Investigation of
the implications of design controls on the single building.
Prerequisite: Students must earn a C or better in: ARCH 332 and A E 424
ARCH 432: Architectural Design VI

6 Credits

A continuation of ARCH 431, this course explores in greater depth urban planning and architectural design in an urban context. ARCH 432 Architectural Design VI (6)ARCH 432 is a continuation of ARCH 431 with a focus on architecture in urban environments and urban/community planning issues of greater complexity. The class will collaborate in the research and documentation of the existing conditions of an urban site and the forces that influence it. This will include the study of precedents. The class will prepare a pre-design presentation, individual architecture projects, base models, and a book of the semester's work. Based on the pre-design information, small student groups will develop a master plan for a large program. This exercise will include the preparation of the plan, supported by concept diagrams and models, land use diagrams, open space diagrams, landscape plans, pedestrian and vehicular circulation/parking/servicing diagrams, written and graphic site and building design guidelines, and a utilities diagram. The architectural component of the master plan will be selected for development as the studio architectural design project. Each student will prepare an architectural project based on the general logic and concepts of the group plan. Major topics addressed in the course include working collaboratively in teams, understanding fundamental organizing principles of cities and towns, understanding urban contexts, urban plans, land-use controls, and economic plans, the design of urban spaces, and the design of a single building or complex of buildings in an urban environment.

Prerequisite: Students must earn a C or better in: ARCH 431
ARCH 441: Architectural Design Analysis

3 Credits

Studies in principles and elements of design; planning for human use; the relationship of space to physical and social environment. Architectural Engineering majors only. ARCH 441 Architectural Design Analysis (3) Studies in principles and elements of design; planning for human use; the relationship of space to physical and social environment. The objective of this course is to explore various approaches to architectural design and to reinforce the concept that there is no "right" or "wrong" answer to a design problem. "Design" is decision-making in itself -- the key to a successful project lies not only in the final product, but in the process leading up to it as well. In order to be successful, design solutions must respond to both formal ideas as well as human, environmental and technical realities. Thus, the interaction between art and technology becomes imperative.

Prerequisite: ARCH 130A
ARCH 442: Architectural Design Analysis

3 Credits

Continuation of ARCH 441, with emphasis on functional relationship of space, form, structure, and building groups. Architectural Engineering majors only. ARCH 442 Architectural Design Analysis (3) Continuation of ARCH 441, with emphasis on functional relationship of space, form, structure, and building groups. The objective of this course is to explore various approaches to architectural design and to reinforce the concept that there is no "right" or "wrong" answer to a design problem. "Design" is decision-making in itself -- the key to a successful project lies not only in the final product, but in the process leading up to it as well. In order to be successful, design solutions must respond to both formal ideas as well as human, environmental and technical realities. Thus, the interaction between art and technology becomes imperative.

Prerequisite: ARCH 441
ARCH 443: Architectural Design Analysis Inspection Trip

1 Credits

Faculty guided trip to metropolitan areas to investigate noteworthy architecture and building construction and to visit professional offices.

Prerequisite: fourth-year architectural engineering majors first priority, others by faculty approval
ARCH 451: Architectural Professional Practice

3 Credits

A study of architectural practice in today's society: education, registration, office practice, codes, standards, construction industry, contracts, and legal documents. ARCH 451 Architectural Professional Practice (3) ARCH 451 is a required course in the BARCH curriculum. It is intended to prepare students for the professional practice of architecture. The course explores the historical influences and current trends that shape the relationship between the architect, client and builder in contemporary society. This course provides an overview of the changing roles of the architect through history as well as a detailed examination of the architectural profession in today's rapidly changing world. ARCH 451 reviews internship, architectural licensing procedures and requirements, professional development (life-long learning), architectural practice including office organizational structures, the architect's administrative role, construction cost control, professional organizations, the architect's professional, legal and ethical responsibilities (including life-safety and accessibility), leadership in the profession and the community as well as alternative architectural / design related careers.

Concurrent: ARCH 491
ARCH 480: Technical Systems Integration

3 Credits

Presentations of buildings' analyses from a multiplicity of viewpoints: architectural, spatial, environmental, mechanical, construction assembly. ARCH 480 Technical Systems Integration (3) This course is a synthesis of topics previously introduced in the AE sequence - such as structural, mechanical, electrical, and other systems related to a building's technical performance. Students will practice the purposeful integration of all technical aspects of a buildings design, providing them with a working knowledge of matters related to energy efficiency, sustainability, lighting, and acoustics. The focus of the course lies in questioning how technical requirements and design intentions should be integrated during the design process, so as to enhance the aesthetic and performance qualities of an architectural project. This course combines lectures, field trips, and technical assignments, along with analysis and implementation of energy, day lighting, electrical lighting, and acoustical concepts in the student's design efforts. In addition to the synthesis of building design and technical systems, this course will further develop the student's knowledge of active/passive techniques for sustainable architecture. A focus on the collaborative workings/environment of the architectural practice helps students to translate systems integration strategies into
graphic/digital representation, and reinforces the interdisciplinary nature of designing and constructing successful works of architecture.

**Prerequisite:** ARCH 203, ARCH 204, ARCH 332, A E 422, and A E 424 with a grade of C or better in each; Concurrent: ARCH 431

ARCH 481: Digital Design Media

3 Credits

Advanced course in digital modeling, rendering, animation and non-linear video for architectural investigations.

**Prerequisite:** approval by instructor

ARCH 491: Architectural Design Studio

6-12 Credits/Maximum of 12

Problems in architectural planning and design; and/or programming, implementation methodologies and applications for various environmental design scales. ARCH 491 Architectural Design VII-Thesis (6) It is the goal of this program that, upon completion of the fifth year, each student will have the ability to pursue an architectural idea in a rigorous, in-depth manner and be able to express the knowledge of and implication of that idea through the completion and presentation of a "thoroughly considered building design project." It is the intent of the fifth-year component of the Bachelor of Architecture program to foster the spirit of in-depth design inquiry and research, and to build upon and reiterate design awareness, skills, and methods introduced in previous years; and to introduce, discover and develop new ones. To these ends the primary educational vehicle is the use of a propositional thesis as a way of directing the study toward the linking of theory and building in a meaningful manner.

**Prerequisite:** Students must earn a C or better in: ARCH 431, ARCH 499A, and ARCH 311W; Concurrent: ARCH 451

ARCH 492H: Architectural Design Studio

6 Credits

Continuation of select ARCH 491 sections with concentration and specialization options.

**Prerequisite:** Students must earn a C or better in: ARCH 491; Concurrent: ARCH 480

Honors

ARCH 495: Advanced Architectural and Related Design/Construction Work Experience II

1-3 Credits/Maximum of 6

Supervised off-campus, nongroup instruction including field experiences, practica, or architectural and related design/construction work experience. ARCH 495 Advanced Architectural and Related Design/Construction Work Experience II (1-3 per semester/maximum of 6) Supervised off-campus, non-group instruction including field experiences, practica, or architectural and related design/construction work experience. A final presentation of activities will be evaluated by a faculty member in the Department of Architecture. Number of credits will be determined based on the total number of hours of approved work experience under the direct supervision of a registered architect or other approved professional:1 credit: 75-149 hours 2 credits: 150-239 hours 3 credits: 240+ hours

**Prerequisite:** Grade of C or higher in: ARCH 332; instructor approval of work experience proposal including employment agreement with an approved supervisor.

ARCH 496: Independent Studies

1-18 Credits/Maximum of 18

Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.

ARCH 496H: Independent Study - Honors

1-18 Credits/Maximum of 18

Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.

Honors

ARCH 497: Special Topics

1-9 Credits/Maximum of 9

Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

ARCH 499: Foreign Studies

1-12 Credits/Maximum of 12

Courses offered in foreign countries by individual or group instruction.

**Prerequisite:** seventh-semester standing International Cultures (IL)

ARCH 499A: Rome Study-Architectural Design

6 Credits/Maximum of 12

Individual or group instruction conducted in Rome, Italy. ARCH 499A Foreign Study - Architectural Design VI (6) The semester abroad design work will focus on the difficult problem of creating new construction in the presence of an historic structure. This is an inevitable problem in the city of Rome where one can hardly avoid confronting historic or monumental buildings. However, as every place is preceded by a history, either natural, political or material, these issues are important outside of this context, the course aims to help students define critical strategies that will serve them beyond their semester abroad. Fifteen weeks is a short time to experience a place as complex and interesting as Rome, Italy. For many students, it may be a chance of a lifetime to live in and study a place as challenging and full of opportunity as this. Students are expected to approach the semester with even more seriousness then they would a semester at home. A semester in this program is not a mere travel experience but an academic exploration of a foreign and historic environment. Every activity of this studio is designed to these ends. Therefore, we have selected a very direct and limited building program, a site in the historic center, and exercises that require students to spend time in the field as well as in the studio.

**Prerequisite:** Students must earn a C or better in: ARCH 332 and A E 424; Concurrent: ARCH 499Band ARCH 499C

International Cultures (IL)
ARCH 499B: Architectural Analysis

3 Credits/Maximum of 12

ARCH 499B Architectural Analysis (3) (IL) Architecture is amplified and embodied in cities. Since most architecture is set in cities and the city is itself an architecture, it becomes necessary for us to evaluate the relationships that affect the making of buildings for cities and the organization of buildings into a meaningful whole. This course will explore the two meanings of the term "the architecture of cities." It will propose questions leading to an analytical de-composition of the situation of cities in general and Rome in particular. The course is loosely divided into three sections. The first, Historical Overview, presents the evolution of early settlements focusing on the significance of built form. The second, Revolutions and Modernity, demonstrates the qualitative shift in emphasis that settlements undergo from the Enlightenment, through the Industrial Revolution, to the Information Revolution. The third section, the Current Debate, will present some contemporary issues and techniques proposed for the resolution of apparent problems of city architecture. Since this course is given in a unique setting, it takes full advantage of Rome, its history and its problems, to highlight the universal design elements that are part of an analytical understanding, but also of a synthetic design understanding of cities. This course is theory based and, as such, will provoke thinking, a taking apart mentally, more than a making of architecture. The studio design problem, also set in this city, is the operative dimension of thoughts generated here. In this class, students are expected to articulate thought and some clear graphic analysis concerning architecture. These thoughts, if manipulated with discipline and commitment, will become a source of illumination for design activity. Learning Objectives:

* To learn the meaning of cities in Western culture
* To understand the significance of foundation and other rites concerning building the human environment.
* To understand the meaning of urban architecture
* To understand the reasons for the form of streets, buildings and open spaces in Western cities
* To achieve the analytical skills necessary to take apart the component systems and material elements of architecture

Prerequisite: Students must earn a C or better in: ART H201 and ART H202; Concurrent: ARCH 431Aor ARCH 432A and ARCH 499C

ARCH 499C: Urban Studies

3 Credits/Maximum of 12

ARCH 499C Urban Special Topics (3) (IL) The course is a presentation of the history of Rome through the medium of its maps. The well documented cartographic history of the city is presented along with the morphological changes that are evident in the city today. The material of Rome's physical development is presented in two distinct ways. The first involves slide presentations of Roman maps and engraving images organized by specific routes (vie consolari and others) into and out of the city. The second is by on-site walks through the same routes with the instructor. The approximately twelve routes involve a lecture presentation usually given on Tuesdays, followed by an on-site walk usually given on Thursday. Students are then assigned their own route map of the same study area to generate over the weekend. These are graded and discussed in the following sessions.

Framework:


* To learn the history of the development of one of the most important cities in the world.
* To learn the importance of mapping an way-finding in the understanding of architecture.
* To learn the reading of traces of the past morphological development of a city.
* To understand how cities are built, change, and grow over time.

Prerequisite: Students must earn a C or better in: ART H201 and ART H202; Concurrent: ARCH 431Aor ARCH 432A and ARCH 499B

ARCH 499F: Architectural Design Foreign Study

3-6 Credits/Maximum of 12

The abroad design studio serves students in their fifth year of the BARCH program, giving them the option of studying abroad for a semester additional to their required Rome semester. This studio will provide our students with a much needed global perspective into architecture and urbanity as practiced elsewhere in the world. The Architectural Design Studio will be embedded in an urban location abroad, introducing students to the socio-cultural and urban-architectural forces that shape our globe. It is increasingly important to recognize different models of architectural practice within different global contexts, and this studio will permit our students to engage in these issues first hand by being immersed within a particular culture and designing for it. A semester in an abroad studio is not merely a travel experience, but an academic exploration of a global environment. Students are expected to approach the work of the semester with even more rigor than they would a semester at home, while they follow a similar semester structure. The abroad studio will involve a site in the host city, programs and infrastructure appropriate for the exploration of the new context. The semester will include an initial urban/architectural analysis of the host city, leading to the identification of sites and design research topics. The studio will continue with the introduction of programs, and additional infrastructural requirements, and will culminate with a building proposal within the context of the host city. The abroad studio will have 150 contact hours, similar to architectural design studios at home.

Prerequisite: Students must earn a C or better in: ARCH 431, ARCH 480, ARCH 499A, and ARCH 311W