Center for the Arts / TYLER SCHOOL OF ART (http://tyler.temple.edu/#/prospective)

About the Program

The M.Arch. is a first professional degree. Tyler Architecture focuses on design in the contexts of cultural and technological innovation as well as in stewardship of the built and natural environment. The program stresses critical inquiry as part of the creative process, teaching students how to assess and intervene in the physical world through carefully considered acts of making. The department engages the city, exploring and addressing the ethical and social dimensions of architecture and the built environment, and through this seeks to develop an ethos of leadership in our students, preparing them to become active participants in practices and discourses surrounding the complex global and local issues of our time.

Time Limit for Degree Completion: 5 years

Campus Location: Main

Full-Time/Part-Time Status: The curriculum is designed for a full-time load of 15 credits per term. This allows Professional Track students to complete the degree in 2 years (4 terms) and Intensive Design Track students to complete the degree in 3 years (6 terms). Students are, however, able to complete the degree program on a part-time basis.

Study Abroad: M.Arch. students in the Professional Track may choose to study at the TU Rome or TU Japan campuses in the Spring terms.

Accreditation:
The M.Arch degree program is accredited by the National Architectural Accrediting Board (NAAB), which requires publication of the following statement:

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in Architecture, recognizes three types of degrees:

1. The Bachelor of Architecture
2. The Master of Architecture
3. The Doctor of Architecture

A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Temple University Architecture Department offers the following NAAB accredited degree programs:

- B.S.Arch. (156 undergraduate credits, last class accepted in Fall 2009)
- M.Arch. (B.S.Arch. pre-professional degree + 60 graduate credits)
- M.Arch. (baccalaureate degree + up to 90 graduate credits)

The next accreditation visit for the M.Arch. program is 2014.

Job Prospects:
The Master of Architecture is an accredited professional degree program that prepares students for a career as a professional architect. Students are eligible to sign up for the Intern Development Program (IDP) upon admission to the program and to take the architecture licensing exams according to the schedule of internship and licensure as determined by the architecture registration board in the state in which the student wishes to obtain licensure. Because this is an urban program located centrally in Philadelphia, engagement with the local professional community is a primary characteristic of the program. During the time in the program, students are introduced to the IDP and engage with members of the profession through design critiques and mentorship initiatives.

Licensure:
In the United States, most state architecture registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in Architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. The master's degree program offered by Temple University has two tracks: a 3-year Intensive Design Track open to students with a baccalaureate degree in any discipline, and a 4+2 program that consists of a pre-professional undergraduate degree (B.S.Arch.) and a professional graduate degree (M.Arch.),
which, when earned sequentially, comprise an accredited professional education. Note that the pre-professional B.S.Arch. degree is not, by itself, recognized as an accredited degree.

Non-Matriculated Student Policy:
Non-matriculated students must contact the Architecture Department for information.

Financing Opportunities: The Architecture Department has a limited number of scholarships for graduate students. Students should also check the Tyler School of Art (http://tyler.temple.edu/#/prospective) and Student Financial Services (http://sfs.temple.edu) websites for financial aid opportunities. Students should complete a FAFSA (http://www.fafsa.ed.gov) application to determine eligibility for student financial aid, work study employment within the Architecture Department, or other eligible on-campus jobs.

Admission Requirements and Deadlines

Application Deadline:

Fall: January 15

Applications are reviewed as they are received after the deadline. Students are normally admitted in the Fall term. In the rare instance when students are admitted in the Spring, they may have limited course offerings in the first term because course sequencing begins in the Fall.

APPLY ONLINE to this graduate program.

Letters of Reference:
Number Required: 3

From Whom: Letters of recommendation should be obtained from college/university faculty members and/or professionals in the field who are familiar with the applicant’s academic and professional competence.

Coursework Required for Admission Consideration: The M.Arch. program has two tracks:

1. a two-year Professional Track and
2. a three-year Intensive Design Track

Admission into the two-year Professional Track is open only to students who have completed a pre-professional degree in Architecture, i.e., a program with course content equivalent to the current Temple University B.S. in Architecture. Admission into the three-year Intensive Design Track is open to any student who has completed a bachelor’s degree. All applicants apply directly to the M.Arch. program, not to a specific curricular track. Admitted students are placed in the appropriate track based on a thorough review of all application materials.

Bachelor's Degree in Discipline/Related Discipline:
A pre-professional baccalaureate degree in Architecture (or equivalent) is required for the two-year Professional Track. A baccalaureate degree in any discipline is required for the three-year Intensive Design Track.

Statement of Goals: Approximately 500 to 1,000 words include your interest in Temple’s program; your educational and research goals; your future career goals; and your academic and research achievements.

Standardized Test Scores:
GRE: Required. Average scores are typically in the 50-65% range, particularly on the verbal section.

TOEFL: 79 iBT or 550 PBT minimum

Resume: Current resume required.

Portfolio:
All applicants must submit a portfolio of their most important and representative design, creative, and written work. Portfolios from students with prior academic experience in Architecture should include architectural design work done in academic settings. Portfolios may also include work in the visual arts or in visual communication. In addition, work completed in practice may be included but should clearly articulate the applicant’s role in the project. Papers, research, or other materials (preferably dealing with the built environment) are invited as evidence of scholarly, academic, or creative work. Work chosen for inclusion in a portfolio should best represent the applicant’s knowledge, aptitudes, interests, creative ability, and experience relative to the discipline of Architecture. The portfolio should include approximately 20 images or other items.

Portfolios are to be uploaded at https://temple.slideroom.com/, as instructed at the website. SlideRoom requires an additional fee for this service. Original work, slides, CD-ROMs, catalogs, photographs, books, and/or binders are not acceptable substitutes for the SlideRoom portfolio and will not be reviewed or returned.

Program Requirements

General Program Requirements:
Number of Credits Required: 60 for the Professional Track; up to 90 for the Intensive Design Track.

Required Courses:

Professional Track

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<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td>ARCH 5252</td>
<td>Str Des for Architects 1</td>
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<td>ARCH 5351</td>
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<td>ARCH 8133</td>
<td>Arch Research Seminar 3</td>
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<td><strong>Term Credit Hours</strong></td>
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<td>ARCH 5253</td>
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<td>ARCH 8012</td>
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<td>ARCH 8132</td>
<td>Arch Research Seminar 2</td>
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<td><strong>Term Credit Hours</strong></td>
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<td>ARCH 8013</td>
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<td>ARCH 8131</td>
<td>Arch Research Seminar 1</td>
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<td>ARCH 8352</td>
<td>Env Control Systems 2</td>
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<td>ARCH 9991</td>
<td>Directed Research (OR ARCH Elective)</td>
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<td><strong>Term Credit Hours</strong></td>
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<td>Spring</td>
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<td>ARCH 8012 or 9996</td>
<td>Elect Arch Des Studio</td>
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<td>ARCH 8096</td>
<td>Professional Practice</td>
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<td>ARCH Elective</td>
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<td>Free Elective</td>
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<td></td>
<td><strong>Term Credit Hours</strong></td>
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<td><strong>Total Credit Hours:</strong></td>
<td><strong>60</strong></td>
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1. ROME or TOKYO OPTION: M.Arch. students in the Professional Track can choose to study abroad at the Temple Rome or Temple Japan campuses in the Spring terms. Studio course credits count toward ARCH 8012. Architecture seminar course credits count toward Architecture elective requirements, and other coursework counts toward free elective credits in the program.

Intensive Design Track

Up to 30 credits are taken in Year 1, with the actual number varying according to the amount of architecture pre-professional course content previously satisfied by the student. Students are required to keep a portfolio of coursework taken in Year 1 of the Intensive Design Track. Upon successful completion of Year 1, students undergo a portfolio review prior to entering the 2-year Professional Track. Courses for the Intensive Design Track include:

Required Courses

|        | ARCH 5011 | Graduate Representation Intensive 1 | 3 |
|        | ARCH 5012 | Graduate Representation Intensive 2 | 3 |
|        | ARCH 5122 | Graduate Design Foundation Intensive | 6 |
|        | ARCH 5231 | Graduate Design Studio 1 | 6 |
|        | ARCH 5232 | Graduate Design Studio 2 | 6 |

Building Technology (up to 6 credits)

|        | ARCH 5152 | Materials and Methods of Construction | 3 |
|        | ARCH 5251 | Structural Analysis for Architects | 3 |

History and Theory (up to 12 credits) 2
ARCH 5141  Architectural History 1: Ancient through Renaissance  3
ARCH 5142  Architectural History 2: Renaissance through 20th Century  3
ARCH 5296  Movements in Modern Architecture  3
ARCH 5596  Seminar in Architectural Theory  3

Total Credit Hours  42

1 Required of students who took fewer than 8 credits of foundation or architectural design studios as undergraduates.
2 Includes 6 credits of which may be taken in Years 2 and 3 as architecture electives.

Culminating Events:

Design Studio Project:
In the Intensive Design Track, students are required to take up to 18 credits of design studio and 6 credits of representation courses. Placement is assessed at the time of application and is based on the student's portfolio and transcript.

In the Professional Track, students are required to complete four design studios or three design studios and a thesis.

Design Thesis:
Students can undertake an independent design thesis. This option is a two-term, two-course sequence: ARCH 9991 in the Fall, and ARCH 9996 in the Spring. The result is a pre-design position paper and design project analysis, culminating in a design thesis project presentation and written/graphic documentation of the work.

Contacts

Program Web Address:
http://tyler.temple.edu/programs/architecture

Department Information:

Tyler School of Art
Graduate Admissions Office
2001 N. 13th Street
Philadelphia, PA 19122-6016
tylerart@temple.edu
215-777-9090

Submission Address for Application Materials:
https://temple.slideroom.com/

Mailing Address for Official Transcripts:
Center for the Arts/Tyler School of Art
Graduate Admissions Office
2001 N. 13th Street
Philadelphia, PA 19122-6016

Department Contacts:

Professional Programs Administrator:
Emily Furlong
emily.furlong@temple.edu
215-204-9135

M.Arch. Program Director:
Rashida Ng
rashida.ng@temple.edu
215-204-3816

Department Chairperson:
Kate Wingert-Playdon
mwingert@temple.edu
215-204-7903
Courses

ARCH 5011. Graduate Representation Intensive 1. 3 Credit Hours.
This course focuses on the development of visual literacy, graphic techniques, and 3D formal exploration. Through projects supported by research, graphically-based exercises, and formal investigations, students will be exposed to the process of representation in architecture. Development of individual portfolio of design work, a requirement for graduate students in architecture.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 5012. Graduate Representation Intensive 2. 3 Credit Hours.
This course focuses on the development of visual literacy, graphical techniques, and 3D formal exploration. Through projects supported by research, graphically-based exercises, and formal investigations, students will be exposed to the process of representation in architecture. Methods of 2D and 3D analog and digital representation will be addressed. Development of individual portfolio of design work, a requirement for graduate students in architecture.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 5122. Graduate Design Foundation Intensive. 6 Credit Hours.
Students in this course will develop rigorous design thinking through making and the integration of material, craft, tectonic and visual practice. Development of the design crit plus methods of communicating design objectives. Scale: artifact, body and spatial envelope. Development of individual portfolio of design and graphic work as required for the M Arch degree.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 5141. Architectural History 1: Ancient through Renaissance. 3 Credit Hours.
Traces the history of Western architecture from the ancient world to the high renaissance and mannerism of the late 16th century. The evolution of architectural thought, various formal languages (styles) and theoretical concepts are studied through the examination of selected buildings within their specific political, social, economic, and cultural milieu. Emphasis on the analysis of the ancient temple and the Christian church. Development of individual portfolio of design work, a requirement for graduate students in architecture.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 5142. Architectural History 2: Renaissance through 20th Century. 3 Credit Hours.
Traces the history of Western architecture from the 17th century through the 20th century. The evolution of architectural thought, various languages (styles) and theoretical concepts studied through the examination of selected buildings within their specific political, social, economic, and cultural milieu. Analysis of the significant buildings of the baroque and rococo, the neo-classic and the romantic, modernist, and post-modernism periods. Development of individual portfolio of design work, a requirement for graduate students in architecture.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 5152. Materials and Methods of Construction. 3 Credit Hours.
Introduction to construction materials, fundamentals of building construction, methods of assembling building systems in an integrated manner, and costing. Introduces specific regulatory issues dealing with zoning regulations, building codes, and barrier-free access requirements within the context of contemporary building techniques. Methods of construction in wood, masonry, concrete, and steel are described in detail and issues of enclosure, roofing, insulation, and finishes are presented. The course carries technical drawing requirements. Development of individual portfolio of design work, a requirement for graduate students in architecture.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.
ARCH 5231. Graduate Design Studio 1. 6 Credit Hours.
The house as essential site of architecture. Consideration of relationships between program, culture, society and form making at a domestic scale; consideration of structure, space, shelter and place making; methods of construction, tectonics and detailing as design concerns; introduction to precedent study as research technique. Development of individual portfolio of design work, a requirement for graduate students in architecture.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
ARCH 5122|Minimum Grade of B-|May not be taken concurrently.

ARCH 5232. Graduate Design Studio 2. 6 Credit Hours.
Studio with environmental sustainability focus - energy and resource use, hydrology, sustainable materials, infrastructure and building methods, recycling, environmental performance and quality; emphasis on systems and details (very large and very small); development of techniques for environmental analysis (observation, data analysis etc.); development of ecological and environmentally responsive design proposals; program development; introduction to design collaboration. Development of individual portfolio of design work, a requirement for graduate students in architecture.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(ARCH 5122|Minimum Grade of B-|May not be taken concurrently
AND ARCH 5231|Minimum Grade of B-|May not be taken concurrently).

ARCH 5251. Structural Analysis for Architects. 3 Credit Hours.
This course covers loadings determination and evaluation, resolution and equilibrium of force systems, truss analysis, centroids, moments of inertia, shear and bending moment diagrams, basic beam, column, and system design. Development of individual portfolio of design work, a requirement for graduate students in architecture.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 5252. Str Des for Architects 1. 3 Credit Hours.
Application of principles of engineering mechanics to layout, analysis, design, and detailing of structural elements in steel and wood of simple buildings. Flexural theory including elastic and plastic design is taught. Students will be familiarized with current building design codes as they relate to the structural design of building elements.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 5253. Str Des for Architects 2. 3 Credit Hours.
Application of principles of engineering mechanics to layout, analysis, design, and detailing of structural elements in concrete and masonry of simple buildings. Students will be familiarized with current building design codes as they relate to the structural design of building elements.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 5296. Movements in Modern Architecture. 3 Credit Hours.
History and theories of the architecture and urbanism of the modern period, from the beginning of the 19th century until the 1960's. Key ideas, texts and iconic buildings from the USA, Europe and other sites of the modernist diaspora are discussed. Development of individual portfolio of design work, a requirement for graduate students in architecture.

Department restrictions: Must be enrolled in one of the following Departments: Tyler:Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.
ARCH 5351. Env Control Systems 1. 3 Credit Hours.
This course discusses the thermal and environmental processes that affect buildings and develops techniques for designers to respond to and manipulate thermal environments in ways that are integral with other building systems. Mechanical, electrical, and plumbing systems, heating, ventilation, and air-conditioning (HVAC) equipment, vertical transportation, communication, security, and fire protection systems and introduced. These are discussed against a backdrop of the principles of sustainability and environmental responsibility.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 5596. Seminar in Architectural Theory. 3 Credit Hours.
Theories of architecture and urbanism during the modern and contemporary periods; participation in critical theoretical discussions and the development of a research paper in response to critical feedback. The course serves to lay the ground for the theoretical development of thesis ideas. Development of individual portfolio of design work, a requirement for graduate students in architecture.
Department restrictions: Must be enrolled in one of the following Departments: Tyler Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 8000. Spec Top Sem in Practice. 3 Credit Hours.
Graduate level seminar to familiarize and engage students in issues of Integrated Practice. The course centers on a discussion of major impacts of practice, and the ethical issues and responsibilities that we are faced with in the current era where BIM has the potential to change the roles in built environment disciplines, and impacts of globalization and sustainability drive our needs. The course addresses changes brought on in technology and practice management. Discussion and research can span a range of issues that affect practice.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 8011. Adv Arch Des Studio 1. 6 Credit Hours.
Design studio to familiarize students with current urban design strategies and their historical precedents. Students will engage in generative analysis of urban systems, economies, structures, infrastructures, spaces and / or cultures, involving observation and data collection, visualization, program development and its spatio / temporal resolution and visualization. The studio may involve collaboration with aligned fields or disciplines e.g. landscape architecture, media studies, geography and urban studies, community and regional planning and / or outside agencies or groups. Peer critique and evaluation are utilized as learning techniques.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 8012. Elect Arch Des Studio. 6 Credit Hours.
Advanced architectural design studio. The topic of the studio varies in accordance with faculty expertise and research focus. This might include, but not be limited to an area of architectural, spatial, social, cultural or political practice, an interdisciplinary intersection such as architecture + biology / geology / war / the media / gender or business; research into materials, energy, structure, scripting, fabrication or other computational technologies. The course develops observational techniques and data collection, management and visualization appropriate to the topic of the studio. It requires spatio / temporal / material development, resolution and representation of an architectural design strategy at appropriate scales. Collaboration with aligned fields or disciplines may be undertaken if it is appropriate to the topic of the studio. Peer critique and evaluation are utilized as learning techniques and the capacity for independent work is developed. The course must be taken once, but may be taken up to three times for required credits as long as the topic covered is substantially different each time.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 8013. Comp Arch Design Studio. 6 Credit Hours.
Comprehensive design studio: the integration of structural and environmental systems, programming, tectonics and detailing into architectural design and expression in holistic and environmentally sustainable ways; comprehensive representation of design; development of time management skills, peer critique and self evaluation; interaction with consultants.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.
ARCH 8096. Professional Practice. 3 Credit Hours.
The course is required for internship in the architectural profession. It exposes students to the history, development and current status of the architectural profession and professional education and develops understandings of the trends and dynamics of contemporary architectural practice. It discusses what is required to properly serve clients and the common good; how to pursue, win, negotiate and prepare agreements and contracts; how to organize, manage, design, control costs, produce and administer contracts for the construction of architectural projects and how to organize, build and maintain architectural firms.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 8100. Spec Top Case St in Arch. 3 Credit Hours.
Graduate level seminar that centers on comprehensive case studies in architecture as a form of primary research. The seminar discussion and research will focus on architectural works with the aim of learning about important aspects and overlaps that make architecture. In each case, the topics that drive the research and analysis will vary. Topics and issues will be guided by class discussion and the nature, scale and context of the architectural works. The course will address methods of analysis and techniques for visualization and presentation. It requires active participation in class discussions.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 8131. Arch Research Seminar 1. 3 Credit Hours.
Graduate level research seminar to familiarize and engage students in an area of contemporary urban research, its history, networks, strategies and techniques. It will develop methods and skills for the research and analysis of urban systems, economies, structures, infrastructures, spaces and / or cultures and techniques to visualize data and present research findings. The topic of the seminar varies in accordance with faculty expertise and research focus and might include, but not be limited to, approaches to sustainable urban development, ludic urban design strategies, advocacy based urbanism, user generated cities, computational urbanism, etc. The course takes a seminar format and requires active participation in class discussions.

The course is required to be taken once in conjunction with ARCH 8011, but may be taken again for elective credit provided that the topic covered is different each time.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 8132. Arch Research Seminar 2. 3 Credit Hours.
Graduate level seminar to familiarize and engage students in an area of contemporary architectural research, its history, networks, strategies, techniques. The topic of the seminar varies in accordance with faculty expertise and research focus. This might include, though not be limited to, questions about research as architectural practice, about architectural design as research, about architectural history, about architecture as spatial or political practice, or engage in any one of the interdisciplinary intersections currently re-energizing architecture - architecture + biology / war / media studies / post-colonial studies / gender studies / business etc. The course will develop methods and skills for architectural research and analysis and techniques for data visualization and research presentation. The course takes a seminar format and requires active participation in class discussions.

The course is required to be taken once, but may be taken again for elective credit provided that the topic covered is different each time.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 8133. Arch Research Seminar 3. 3 Credit Hours.
Graduate level research seminar to familiarize and engage students in an area of contemporary architectural research, its history, networks, strategies and techniques. The topic of the seminar varies in accordance with faculty expertise and research focus. This might include, though not be limited to, approaches to sustainable urban development, ludic urban design strategies, advocacy based urbanism, user generated cities, computational urbanism, etc. The course will develop methods and skills for the research and analysis of urban systems, economies, structures, infrastructures, spaces and / or cultures and techniques to visualize data and present research findings. The topic of the seminar varies in accordance with faculty expertise and research focus and might include, but not be limited to, approaches to sustainable urban development, ludic urban design strategies, advocacy based urbanism, user generated cities, computational urbanism, etc. The course will develop methods and skills for architectural research and analysis and techniques for data visualization and research presentation. The course takes a seminar format and requires active participation in class discussions.

The course is required to be taken once, but may be taken again for elective credit provided that the topic covered is different each time.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 8146. Grad Study Abroad Report. 1 Credit Hour.
This course requires that students prepare an independent report of their study abroad experience, in a format agreed with the course co-coordinator.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.
ARCH 8233. Arch Des St Tokyo (G). 6 Credit Hours.
A complex design investigation incorporating analysis of urban systems, observational research, data collection and analysis and the study of architectural precedents. The course immerses students in a foreign urban and architectural culture and asks them to engage in a complex design investigation, whose topic and scale is variable. Course may be used as equivalent of ARCH 8012 but may only be taken once.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 8234. Arch Des Studio Rome (G). 6 Credit Hours.
A complex design investigation incorporating analysis of urban systems, observational research, data collection and analysis and the study of architectural precedents. The course immerses students in a heritage urban and architectural locale and asks them to engage in a complex design investigation, whose topic and scale is variable. Course may be used as equivalent of ARCH 8012 but may only be taken once.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 8241. Seminar: Analysis Urb Str (G). 3 Credit Hours.
Research on urban systems and forms that have marked the development of Italian and Roman architecture from the 15th to the 18th century and that are now a reference point in every Western city: the piazza, the Roman palazzo, the theatre, the garden. The course is intended as a theoretical and analytical complement to the graduate architecture design studio in Rome. It fulfills the requirements of ARCH 8132.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 8242. Urban Seminar Tokyo (G). 3 Credit Hours.
This course provides students an overview of architecture and urbanization in historic and contemporary Japan. Economic, socio-political and technological forces that have shaped the built environment and architecture are discussed and the work of contemporary Japanese architects are studied and analyzed. The course is a theoretical and analytical complement to the Architecture Design Studio. It fulfills the requirements of ARCH 8132.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 8352. Env Control Systems 2. 3 Credit Hours.
This course covers visual and audio environmental stimuli and architectural design responses to them. In addition, it discusses and introduces techniques for measuring the design of building systems for improved environmental performance, in terms of the efficiency of systems, environmental impact and capital and operational costs.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may not be repeated for additional credits.

ARCH 9182. Ind Study Behavior & Culture. 3 Credit Hours.
Graduate level independent study carried out by students interested in research that focuses on human behavior and/or cultural issues in architecture. Students must submit a proposal to a faculty member for review and approval. The proposal should include a statement of intent, schedule and bibliography, and a proposal for a semester long project. Topics and issues that guide the independent study can vary.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 9282. Ind Study in Communication. 3 Credit Hours.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 9285. Arch Int in Tokyo. 3 Credit Hours.
This course provides students with internships in English-speaking architectural firms with offices in Tokyo. Students will be exposed to methods of international practice and cross-cultural design thinking.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.
ARCH 9382. Ind Study Hist Or Theory. 3 Credit Hours.
Graduate level independent study carried out by students interested in research that focuses on history and/or theory of architecture. Students must submit a proposal to a faculty member for review and approval. The proposal should include a statement of intent, schedule, and bibliography, and a proposal for a semester long project. Topics and issues that guide the independent study can vary.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 9482. Ind Study in Technology. 3 Credit Hours.
Graduate level independent study carried out by students interested in research that focuses on technology in architecture. Students must submit a proposal to a faculty member for review and approval. The proposal should include a statement of intent, schedule, and bibliography, and a proposal for a semester long project. Topics and issues that guide the independent study can vary.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 9582. Ind Study Site & Context. 3 Credit Hours.
Graduate level independent study carried out by students interested in research that focuses on issues of site and context in architecture. Students must submit a proposal to a faculty member for review and approval. The proposal should include a statement of intent, schedule, and bibliography, and a proposal for a semester long project. Topics and issues that guide the independent study can vary.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 9682. Independent Research. 3 Credit Hours.
Graduate level independent study carried out by students interested in the topic of research in architecture. Students must submit a proposal to a faculty member for review and approval. The proposal should include a statement of intent, schedule, and bibliography, and a proposal for a semester long project. Topics and issues that guide the independent study can vary.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 9991. Directed Research. 3 Credit Hours.
The development of a self motivated architectural design inquiry under the guidance of a faculty co-coordinator. This includes design research, the development of a design program, site investigation, analytical and speculative design investigations and / or experimentation with advanced visualization techniques. The course is seminar based and engages students in critical dialogue with their own and other students' work. It prepares students for undertaking an architectural design thesis the following semester.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.

ARCH 9996. Arch Design Thesis. 6 Credit Hours.
Self directed architectural design thesis that follows on the research and design inquiries conducted in the fall semester. The course requires that students demonstrate the ability to undertake design research, develop a design program, conduct analytical and speculative design investigations and utilize advanced visualization techniques in the representation of their work. It culminates in a formal juried presentation and a textual document of a publishable standard of a graduate level design thesis.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Architecture
Repeatability: This course may be repeated for additional credit.