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Architecture

The Master of Architecture degree is a first professional degree intended for individuals who have completed a pre-professional undergraduate degree in architecture or architectural studies and requires a minimum of 42 credit hours that can be completed over a 15 month period including a summer, fall, spring and summer semester sequence.

Master of Architecture (M.Arch.)

The core of the architecture program is the design studio. In the Graduate program students are exposed to community and regional design, technology, theory, and building design. Students are required to take advanced courses in research methods, programming and professional practice. Students receive a rigorous and demanding education that will prepare them for a variety of architectural intern positions.

The focus of the program will develop through the:

- Traditional program strength in technological innovation and practice connected to architectural theory.
- Service and discovery related to the regional and global culture and environment as a unique model and framework for the study of architecture.
- Investigation of the work and legacy of R. Buckminster Fuller at Southern Illinois University as it impacts twenty-first century architecture.

Accreditation

The entire undergraduate and graduate curriculum is designed to fulfill National Architectural Accrediting Board (NAAB) requirements and conditions for a professional degree in architecture. The Master of Architecture degree is fully accredited by the National Architectural Accrediting Board (NAAB) and meets educational requirements for licensure in Illinois and other states as well as National Council of Architectural Registration Boards (NCARB) certification requirements.

- *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: the Bachelor of Architecture, the Master of Architecture, and 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.*
- *Master's 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.*
- *The NAAB grants candidacy status to new programs that have developed viable plans for achieving initial accreditation. Candidacy status indicates that a program should be accredited within 6 years of achieving candidacy, if its plan is properly implemented.*

Vision and Mission

The SIUC architecture graduate program invites students to unleash their potential and join in the exploration, development, and creation of architecture in the heartland of America. It is our vision to be an architectural program of excellence built upon the cultural and environmental heritage of the Southern Illinois region that provides a superior education and produces the highest quality architectural scholarship and research to serve our global communities.

Through our cultural heritage, environmental context and the tradition of integrating emerging technology and innovative practice, the mission of the architecture faculty and students is to explore, create, and develop architecture as a synthesis of design excellence, artistic expression, technology and community involvement.

Goals

- Our graduates are lifelong learners, leading citizens and professionals in communities throughout the world.
- We provide for the development of individual creativity through the expression of human, social and environmental values.
- We serve our communities through problem solving and creative efforts in the addressing of regional issues.
- We seek to fulfill the vision expressed by Ernest Boyer and Lee Mitgang in *Building Community* to:
- Produce architecture that enhances the quality of life of our communities, serves the needs of clients, uplifts the human spirit, preserves the environment, provides social justice and expands aesthetic frontiers.
- Pursue the scholarship of discovery, integration, application and teaching.
- Provide a curriculum that is liberal, flexible and integrated both within the discipline of architecture and in connections with other disciplines in the design-build process.

Admission

A complete application consists of:

1. The Master of Architecture application form
2. Graduate School application
3. Application fee of \$65
4. Portfolio
 - Examples of work should include design studio work, professional presentation drawings, and any related expressions that demonstrate the applicant's design and communication abilities. Professional work should include a statement from the employer stating the role of the applicant in the process and product of the work.
 - Preferred sizes: (8 ½" x 11") or (11" x 17"). Use a PDF file.
 - Maximum number of pages: 25
 - Covers and binding: simple and easy to read
 - Portfolios cannot be returned to the applicant.
5. Three letters of recommendation
6. Official transcripts from all institutions attended
7. Statement of purpose expressing academic and professional career goals and plans

International applicants also need to supply TOEFL (Test of English as a Foreign Language) scores that satisfy the Graduate School requirements and Certification of Finances for Admission to the Graduate College.

Graduate Record Examination (GRE) is not required for the Master of Architecture Program. However, many scholarship and fellowship opportunities do require the GRE. Applicants are encouraged to submit test scores.

Application materials are reviewed by the faculty of the School of Architecture. Each submission is evaluated individually and the decisions are based upon the quality of the portfolio, the strength of the academic record, the letters of recommendation, professional experience and the commitment and clarity expressed in the letter of intent.

Requirements

The SIUC School of Architecture Master's of Architecture program curriculum has been created to provide a superior architectural education and satisfy the National Architectural Board (NAAB) "Student Performance Requirements". The program offers multiple tracks (on-campus, online/hybrid delivery options, and IPAL) toward degree completion, depending on entry qualifications and degree needs (outlined below). All applications will be reviewed to ascertain fulfillment of the educational criteria of the SIU undergraduate program and accreditation standards. Based on student undergraduate credentials, multiple curricular paths are defined to address these requirements.

Candidates who have already earned a four-year pre-professional Bachelor of Science in Architectural Studies degree, or its equivalent, may be able to complete the program in a little as 15 months of study. For these students, the graduate program consists of 42 total credit hours, completed over the course of four continuous, intensive study semesters (whether online or on-campus). Students from other majors are required to complete additional coursework (see the 27- and 39-month curriculum guides), or variation, depending on an evaluation of their previous coursework. Any deficiencies will be defined upon acceptance into the program as well as the necessary course requirements to eliminate those deficiencies. Those requirements must be fulfilled prior to completion of the Master of Architecture degree. An additional *Integrated Path to Architecture Licensure* (NCARB IPAL) is also offered in the online format, outlined below.

Path A - 15-Month Curriculum

(For candidates with a 4-year pre-professional degree in architecture)

Summer I Semester

ARC 550: Regional Architecture Studio (6 CH)

TOTAL 6 Credit Hours

Fall Semester

ARC 500: Research Methods and Programming (3 CH)

ARC 541: Arch. Systems & the Environment (3 CH)

ARC 551: Comprehensive Architecture Design Studio (6 CH)

ARC 591: Architectural Professional Practice I (3 CH)

TOTAL 15 Credit Hours

Spring Semester

ARC 532: Global Traditions in Architecture (3 CH)

ARC 552: Graduate Architectural Design Thesis I (6 CH)

ARC 592: Architectural Professional Practice II (3 CH)

Elective: (3 CH)

TOTAL 15 Credit Hours

Summer II Semester

ARC 554: Design/Thesis II (6 CH) –OR–

ARC 593: Architectural Research Paper (6 CH) –OR–

ARC 599: Thesis (6 CH)

TOTAL 6 Credit Hours

Path B - 27-Month Curriculum

(For candidates with a 4-year degree in interior design or an allied area of practice)

Fall I Semester

ARC 341: Building Technology II (4 CH)

ARC 361: Architectural Structures I (3 CH)

ARC 381: Environmental Design I (2 CH)

ARC 451: Design V - Urban Design (6 CH)

TOTAL 15 Credit Hours

Spring 1 Semester

ARC 342: Building Technology III (4 CH)
ARC 361: Architectural Structures II (3 CH)
ARC 452: Design VI - Integration (6 CH)
ARC 462: Architectural Structures III (3 CH)
TOTAL 15 Credit Hours

Summer I Semester

ARC 500: Regional Architecture Studio (6 CH)
TOTAL 6 Credit Hours

Fall II Semester

ARC 554: Design/Thesis II (6 CH) -OR-
ARC 593: Architectural Research Paper (6 CH) -OR-
ARC 599: Thesis (6 CH)
TOTAL 6 Credit Hours

Spring II Semester

ARC 550: Regional Architecture Studio (6 CH)
TOTAL 6 Credit Hours

Summer II Semester

ARC 500: Research Methods and Programming (3 CH)
ARC 541: Arch. Systems & the Environment (3 CH)
ARC 551: Comprehensive Architecture Design Studio (6 CH)
ARC 591: Architectural Professional Practice I (3 CH)
TOTAL 15 Credit Hours

Path C - 39-Month Curriculum

(For candidates with a 4-year degree in other fields of study)

Summer I Semester

ARC 121: Arch. Communication I (4 CH)
ARC 122: Arch. Communication II (4 CH)
TOTAL 8 Credit Hours

Fall I Semester

ARC 231: Architectural History I (3 CH)
ARC 251: Design I: Concept (4 CH)
ARC 271: Computers in Architecture (3 CH)
ARC 361: Architectural Structures I (3 CH)
ARC 381: Environmental Design I (2 CH)
TOTAL 15 Credit Hours

Spring I Semester

ARC 532: Architectural History II (3 CH)
ARC 552: Building Technology I (3 CH)
ARC 592: Design II - Order (4 CH)
ARC 362: Architectural Structures II (3 CH)
TOTAL 13 Credit Hours

Summer II Semester

No Courses Required

Fall II Semester

ARC 341: Building Technology II (4 CH)
ARC 451: Design V - Urban Design (6 CH)
ARC 481: Environmental Design II (3 CH)
ARC 591: Architectural Professional Practice I (3 CH)
TOTAL 16 Credit Hours

Spring II Semester

ARC 342: Building Technology III (4 CH)
ARC 452: Design VI - Integration (6 CH)
ARC 462: Architectural Structures III (3 CH)
ARC 482: Environmental Design III (3 CH)
TOTAL 16 Credit Hours

Summer II Semester

ARC 500: Regional Architectural Studio (6 CH)
TOTAL 6 Credit Hours

Fall III Semester

ARC 500: Research Methods and Programming (3 CH)
ARC 541: Arch. Systems & the Environment (3 CH)
ARC 551: Comprehensive Architecture Design Studio (6 CH)
ARC 591: Architectural Professional Practice II (3 CH)
TOTAL 15 Credit Hours

Spring III Semester

ARC 532: Global Traditions in Architecture (3 CH)
ARC 552: Graduate Architectural Design Thesis I (6 CH)
ARC 592: Architectural Professional Practice II (3 CH)
Elective: (3)
TOTAL 15 Credit Hours

Summer III Semester

ARC 554: Design/Thesis II (6 CH) -OR-
ARC 593: Architectural Research Paper (6 CH) -OR-
ARC 599: Thesis (6 CH)
TOTAL 6 Credit Hours

Contact

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Integrated Path to Architectural Licensure (IPAL) Option

The Integrated Path to Architectural Licensure program is offered in an online format as an option for students. This Program consists of 43 graduate credit hours total. In addition to 39 hours of the 42-credit graduate program shown above, four courses are completed: ARC 594, ARC 595, ARC 596, and ARC 597. The elective shown in the 42-credit hour graduate program is replaced by one of these courses. All four courses are completed to fulfill the IPAL option.

To be admitted to the IPAL option, applicants must have documented work experience of at least 2000 hours on their National Council of Architectural Registration Boards Council Record, also known as the Architectural Experience Program (formerly known as the Intern Development Program). Applicants must also be working in a firm that is willing to partner with the applicant and the School of Architecture to document IPAL requirements for the applicant during their time in the program. Applicants should verify that their state of first licensure permits taking the Architecture Registration Exam before completing the professional degree.

Students may complete one of the four IPAL courses as their elective provided their total educational record fulfills National Architectural Accrediting Board requirements for a professional degree.

Architecture Courses

ARC481 - Environmental Design II 481-3 Environmental Design II: Energy and Systems. (Same as ID 481) The study of the influence of energy, human comfort, climate, context, heating, cooling and water on the design of buildings and sites. The design of passive and active environmental systems and strategies for sustainability. Restricted to major in Interior Design or Architectural Studies; Junior standing with permission.

ARC482 - Environmental Design III 482-3 Environmental Design III: Lighting and Acoustics. (Same as ID 482) This course provides a comprehensive overview of the study of the influences of energy, human comfort, climate, and context, luminous and sonic environment with emphasis on energy-conscious design. Restricted to major; Junior standing with permission.

ARC500 - Arch Res Methods & Programming 500-3 Research Methods and Programming. The foundational study of research methods and programming that serve architectural studies. This course investigates the co-application of multiple methodologies for the development of research topics and architectural programs. The conclusion of the course is the definition of an individual thesis project to be completed in the Graduate Program. Restricted to enrollment in M. Arch. program.

ARC502 - Architecture Seminar 502-3 Architecture Seminar. Study of current trends and topics in architecture. Assigned readings and investigations are completed on approved topics chosen by the student. Students have the option of completing in situ study during the course.

ARC510 - Construction Safety Mgmt 510-3 Construction Management and Operations: Construction Safety Management. Introduce principles of safety and health in the construction industry and their relationship to Construction Management and Operations (COMO). Include identification of safety and health hazards, risk reduction measures, personal protection, and safety attitudes and training. Explore Occupational Safety and Health Regulations for Construction.

ARC511 - Time, Value & Risk Mgmt 511-3 Construction Management and Operations: Time, Value and Risk Management. Overview of management issues and scheduling for a project. Explain importance of time and risk management in construction and construction business. Study how fundamentals of scheduling, liability, and value are interrelated and explore impacts on project, scope, and budget. Apply constructability, sustainability, return on investment strategies, quality management terms and definitions throughout project phases.

ARC512 - Construction Project Mgmt 512-4 Construction Management and Operations: Construction Project Management. This is a two-part course beginning with an overview of the project management process followed by a more in-depth examination of the activities needed to successfully initiate, plan,

schedule, and control the time, schedule, scope, and cost factors of a project. The second part of the course conducts a more focused and in-depth application to the CM process and services.

ARC513 - Budget & Cost Management 513-3 Construction Management and Operations: Budget and Cost Management. Provide overview of various estimating tools and methods for managing budgets, project estimates, and costs during program, construction and facilities management phases. Identify roles and responsibilities for controlling and monitoring project cost. Identify and develop methods for creating valid project estimates and budgets. Explore Integrated Project Delivery (IPD) for budget and cost management.

ARC531 - Seminar: Arch History 531-3 Seminar: Architectural History. A seminar devoted to the teaching, investigation and discussion of the history of architecture. Students have the opportunity to investigate historical precedents and the context within which these ideas have developed. The connection to the contemporary architectural setting and current concepts will be developed and discussed.

ARC532 - Global Traditions 532-3 Global Traditions in Architecture. Seminar to discuss architecture beyond the tradition of Western civilization. Focus is upon the architecture of Asia, the Middle East and North America. Primitive, pre-industrial vernacular as well as cultural specific high style architecture is included. The course format is: lectures, assigned reading, class discussion and individual research reports.

ARC541 - Arch Systems & Environment 541-3 Architectural Systems and the Environment. Provides an overview of building technology and systems and the role of building systems performance in providing architectural and human environments and their subsequent impact upon the natural environment. The course builds upon the philosophical ideas of sustainable design and resource consumption tools. Concurrent enrollment in ARC 551 is required. Restricted to enrollment in M. Arch program.

ARC550 - Regional Arch Studio 550-6 Regional Architecture Studio. Architectural design studio focused upon regional architecture and planning. The studio addresses regional architectural issues building upon the local culture and design traditions. Restricted to enrollment in the M. Arch. program. Studio fee: \$72.

ARC551 - Comp Arch Design Studio 551-6 Comprehensive Architecture Design Studio. Arch. design studio focused upon comprehensive design of a large-scale urban building as fulfillment of the total integration of architectural systems and design criteria. This course serves as the culmination of the fulfillment of student performance criteria through the integration of all major building and urban systems while addressing the current human, social, and environmental issues. Prerequisite: ARC 550. Co-requisite: ARC 541. Restricted to enrollment in M. Arch program. Studio fee: \$72.

ARC552 - Grad Arch Des Thesis I 552-6 Graduate Architectural Design Thesis I. Initial development of individual design thesis project in a studio setting. The studio will consist of design project or an individual student thesis project as developed in ARC 500-3. Approval of thesis project by graduate faculty is required. Prerequisite: ARC 500 and 551. Restricted to enrollment in M. Arch. program. Studio fee: \$72.

ARC554 - Grad Arch Des/Thesis II 554-6 Graduate Architectural Design/Thesis II. A continuation of ARC 552 in the conclusion, presentation and final approval of the individual design/thesis project in a studio setting. This course is taken by students who wish to graduate through the department. Prerequisite: ARC 552. Studio fee: \$72.

ARC555 - Urban Design & Community 555-6 Urban Design & Community. (Same as ARC 451) Study of urban design and community as cultural and spatial development of human settlement patterns. All previous design course experience will be brought to bear on the architectural projects within the context of urban and community criteria. Restricted to major. Studio fee: \$72.

ARC556 - Design VI: Integration 556-6 Design VI: Integration. (Same as ARC 452) This comprehensive design studio focuses the knowledge and skills developed in all previous courses on a single project. The course emphasizes the design integration of the building's structural and environmental systems. Restricted to major in architectural studies. Studio fee: \$72.

ARC557 - Graduate Vertical Design 557-6 to 12 Graduate Vertical Architectural Design. This course is designed as a fast-paced, flexible leveling design studio for individual candidates from architectural

related degree programs who need to meet additional student performance criteria for graduate school entry. As an integrative studio, it further builds on individual capacities, progresses communication and design skills, while addressing complexities of modern architectural programs and design methodologies required to prepare students for advanced architectural expectations. The course engages rigorous research, analysis and synthesis within an urban building context, while emphasizing the integration of environmental and architectural systems into a comprehensive design. Documentation in appropriate technologies, emphasizing advanced critical thinking, communication skills, and multi-dimensional problem-solving capacities, are required and will be formally presented for review. \$12 Studio fee.

ARC562 - Analysis & Lateral Forces 562-3 Analysis & Lateral Forces. (Same as ARC 462) Continuing study of framing materials and systems for buildings using advanced concepts of structural analysis. Included are earthquake resistant structures, wind resistant design, composite beams, plastic theory, statically indeterminate structures, long spans, moment distribution, multi-story structures, and other related topics. Restricted to major.

ARC570 - Architectural Visualization 570-3 Architectural Visualization. This course is designed to give the student a fundamental understanding of the practices of 3D architectural modeling and visualization. Themes emphasized are: 3D modeling; still frame rendering; animation production; image editing and post production. Restricted to enrollment in M. Arch. program.

ARC581 - Special Projects 581-1 to 12 Special Projects. Investigation of individual problems in architecture under the supervision of a faculty member. Restricted to M. Arch. majors. Special approval needed from the instructor.

ARC582 - Special Readings 582-1 to 6 Special Readings in Architecture. Assigned readings in an area of architecture under the supervision of a faculty member. Restricted to M. Arch. majors. Special approval needed from the instructor.

ARC583 - Environmental Design II 583-3 Environmental Design II: Energy and Systems. The study of the influence of energy, human comfort, climate, context, heating, cooling and water on the design of buildings and sites. The design of passive and active environmental systems and strategies for sustainability. Restricted to major.

ARC584 - Env Des III: Light & Acoustics 584-3 Environmental Design III: Lighting and Acoustics. This course provides a comprehensive overview of the study of the influences of energy, human comfort, climate, and context, luminous and sonic environment with emphasis on energy-conscious design. Restricted to major.

ARC591 - Professional Practice I 591-3 Architectural Professional Practice I. Introduction to the organization, management, and practice of architecture as a business and profession. Emphasis is placed on the range of services provided, professional ethics, business management, marketing, contracts and negotiations, design cost analysis/controls, and other aspects of professional practice. Restricted to enrollment in M. Arch. program.

ARC592 - Arch Professional Practice II 592-3 Architectural Professional Practice II. The development of the study and discussion of architectural professional practice issues including leadership, legal responsibilities, ethics and professional judgment. Restricted to enrollment in M. Arch. program.

ARC593 - Arch Research Paper 593-6 Architectural Research Paper. This course is for students who wish to perform individual research in architecture on an approved topic. Prerequisite: ARC 552. Restricted to enrollment in M. Arch. program.

ARC594 - Programming & Analysis 594-1 Programming & Analysis. The purpose of this course is to discuss the programming and analysis of a new architectural project. Included in the review of these topics will be related discussions with regard to project type, client needs, site and context. As part of the learning process, students will be expected to participate in class discussion as well as complete projects which are designed to develop critical thinking, speaking, and writing skills. Prerequisite: ARC 592 with a grade of B- or better.

ARC595 - Project Planning 595-1 Project Planning + Design. The course discusses the preliminary design of a building & the site of a new architectural project. Included in the review of these topics

will be related discussions with regard to project type, client needs, site and context. As part of the learning process, students will be expected to participate in class discussion as well as complete projects which are designed to develop critical thinking, speaking, writing skills, and architectural design skills. Prerequisite: ARC 594 with a minimum grade of B-.

ARC596 - Project Development + Docs 596-1 Project Development + Documentation. The purpose of this course is to review the integration & detailing of a new architectural project. Included in the review of these topics will be related discussions with regard to building systems, assemblies, code, and cost. As part of the learning process, students will be expected to participate in class discussion as well as complete projects which are designed to develop critical thinking, speaking, writing, and architectural design skills.

ARC597 - Construction + Evaluation 597-1 Construction + Evaluation. The purpose of this course is to review the construction and evaluation of a new architectural project. Included in the review of these topics will be related discussions with regard to construction and post-occupancy evaluation. As part of the learning process, students will be expected to participate in class discussion as well as complete projects which are designed to develop critical thinking, speaking, and writing skills. Prerequisite: ARC 596 with a minimum grade of B-.

ARC599 - Thesis 599-6 Thesis. Graded S/U or DEF only. Prerequisite: ARC 552. Restricted to enrollment in M. Arch. program.

ARC601 - Continuing Enrollment 601-1 Continuing Enrollment. For graduate students who have not finished their degree program and who are in the process of working on their thesis, research paper, or capstone project course (ARC 554). Concurrent enrollment in any other course is not permitted. Graded S/U or DEF only.

Architecture Faculty

Anz, Craig K., Professor and Director of the School of Architecture, M.Arch., M.S. ArchSt, Ph.D., Texas A&M, 1991; 2009

Ashayeri, Mehdi., Assistant Professor, Ph.D., Illinois Institute of Technology, 2020.

Brazley, Michael D., Associate Professor, B.Arch., Ph.D., University of Louisville, 1978; 2002.

Cho, Siwon, Associate Professor, Ph.D., Virginia Tech, 2008; 2009.

Davey, Jon, Professor, M.S., Ph.D., Southern Illinois University Carbondale, 1987; 2011.

Dobbins, John, Associate Professor, M. Arch., M. B. A., University of Illinois, 1986.

González-Torres, Rolando, Associate Professor and Head Master of Architecture program, M.L.A., M.A.Ed., Ph.D., Universidad Politécnica de Cataluña, 2008; 2014.

Kidd, Laura K., Associate Professor, Ph.D., Iowa State University, 1994; 1996.

Kheiri, Farshad., Assistant Professor, Ph.D., Texas A&M, 2020.

Lee, Seung-Hee, Professor, Ph.D., The Ohio State University, 1998; 2012.

McDonald, Shannon Sanders, Associate Professor, M.F.A., M. Arch., Yale University, 1992; 2011.

Morthland, Laura, Associate Professor, M.I.Arc., M.F.A., University of Oregon, 2003; 2006.

Smith, Peter B., Associate Professor, B.S., M. Arch., University of Illinois, 1975; 1980.

Emeriti Faculty

LaGarce, Melinda, Associate Professor, Emerita, M.F.A., Texas Technology University, 1972; 1989.

Swenson, Robert, Associate Professor, Emeritus, B.S., M.Arch., Yale University, 1965; 1969

White, David, Associate Professor, Emeritus, M.F.A., Southern Illinois University Carbondale, 1991.

Workman, Jane, Professor, Emerita, Ph.D., Purdue University, 1982; 1989.

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Catalog Year Statement:

Students starting their collegiate training during the period of time covered by this catalog (see bottom of this page) are subject to the curricular requirements as specified herein. The requirements herein will extend for a seven calendar-year period from the date of entry for baccalaureate programs and three years for associate programs. Should the University change the course requirements contained herein subsequently, students are assured that necessary adjustments will be made so that no additional time is required of them.