## Architectural Studies

The most basic human response to the earth’s environment has been the development of methods which increase the probability of survival. The most obvious of these was the creation of shelters by which the impact of climate and the changing seasons could be controlled. From this simple reaction, architecture has evolved which reflects and promotes the cultural, economic and philosophical trends of our societies.

The four-year curriculum in architectural studies offers the beginning level of education for those who intend to pursue a career in this profession or a related field. A structured sequencing of courses is included which provides for a gradual interactive development of required knowledge and skills. This pre-professional preparation is combined with the University Core Curriculum courses to provide a comprehensive scholarly foundation for advancement.

The Bachelor of Science in Architectural Studies (BSAS) is a four-year pre-professional program that prepares graduates for careers in architecture and related fields or to enter masters level programs. In addition, the School of Architecture offers a 1.5 year Master of Architecture (MArch) degree that is accredited by the National Architectural Accrediting Board (NAAB). The BSAS degree combined with the MArch degree is designed to fulfill accreditation 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 an eight-year, three-year, or two-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. 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 six years of achieving candidacy, if its plan is properly implemented. Graduates with a BSAS degree are prepared for entry-level positions in architecture and related fields at a limited level. Ultimately, most graduates will continue their education in a professional-level Master of Architecture program in order to satisfy education requirements for licensure.

Students also are eligible for participation in the Architectural Experience Program (AXP) sponsored by the National Council of Architectural Registration Boards. A wide variety of employment options exist. Some areas include design, planning, preservation, government regulation, construction, building products and facilities management.

The amount of material to be covered, the fast pace of assignments, and the pressure of critical reviews combine to produce a highly charged and energetic atmosphere. Successful students must be able to handle multiple projects simultaneously and demonstrate an ability to manage their time wisely.

To support students in their educational endeavors, sophomores, juniors and seniors are provided dedicated studio space. Program facilities include a resource library, model/furniture shop, a dedicated computer graphics laboratory, a digital fabrication lab, and virtual reality facilities. The computer graphics laboratory will provide access to input/output devices. Each student is required to purchase or lease a laptop computer and software that meets program specifications prior to the start of the second year for those on the four-year plan or prior to the start of the first year for those on the three-year plan. Laptop and software specifications will be supplied during the registration process.
While facilities are provided for use, cost for supplies, individual equipment and field trips necessary to the successful completion of the program are borne by the student. Due to variation in individual materials used, it is impossible to predict the exact costs for each student. A reasonable estimate of additional expenses is in the range of $1,000 to $2,000 per academic year.

The Architectural Studies program maintains the right to retain student work for exhibition or for records and accreditation purposes. Students are advised to assemble photographic and digital files of their work for their portfolios.

Students are encouraged to participate in professional related student organizations, which include the American Institute of Architecture Students, Construction Specifications Institute, and Illuminating Engineering Society. Additional activities designed to enhance the overall quality of education include the University Honors Program, travel study programs, workshops and guest lectures.

Prospective students attending another college or university prior to transferring to Southern Illinois University Carbondale should concentrate on completing courses articulated or approved as substitutes for Southern Illinois University Carbondale’s University Core Curriculum requirements. Prior to taking courses that appear to equate to the professional sequence, the applicant should consult with the school director or designated representative.

Students must pass all Architectural Studies prefix courses with a minimum grade of C- in order to satisfy prerequisites and to graduate. If a student receives a grade of F three times in the same course, the course cannot be taken again. Students cannot repeat Architectural Studies Prefix courses in which they received a grade of C or better.

## Construction Management and Operations Minor and Specialization

A minor in Construction Management consists of a minimum of 15 semester hours, including ARC 210, ARC 310, ARC 410, ARC 411, and ARC 413. ARC 210 and ARC 310 are prerequisites that must be satisfied before taking the upper division 400-level courses. An advisor within the School of Architecture must be consulted before selecting this field as a minor.

The specialization in Construction Management and Operations in the Bachelor of Science in Architectural Studies prepares students for careers in commercial and industrial construction management. The program builds on the School of Architecture’s foundational disciplines in building design and construction. Courses required for specialization include: ARC 210, ARC 310, ARC 410, ARC 411, ARC 412, ARC 413, and TRM 332, TRM 362, TRM 364, TRM 383, and TRM 416. See an advisor. Students must earn a minimum grade of C- in each course taken to satisfy the requirements of the minor, and students must earn a minimum grade point average of 2.0 for those minor courses.

## Bachelor of Science Degree in Architectural Studies

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum - As per University requirements for baccalaureate degrees, but must include HIST 101A,B.</td>
<td>39</td>
</tr>
<tr>
<td>Requirements for Major in Architectural Studies</td>
<td>(9) + 87</td>
</tr>
<tr>
<td>MATH 111</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 203A</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 253A</td>
<td>1</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>HORT 328A, HORT 328B</td>
<td>(2)</td>
</tr>
<tr>
<td>Electives</td>
<td>+ 2</td>
</tr>
<tr>
<td>ARC 121, ARC 122, ARC 231, ARC 232, ARC 242, ARC 251, ARC 252, ARC 271, ARC 341, ARC 342, ARC 351, ARC 352, ARC 361, ARC 362, ARC 381, ARC 451, ARC 452, ARC 462, ARC 481, ARC 482</td>
<td>(3) + 72</td>
</tr>
</tbody>
</table>

Total 120

1 ARC 231, ARC 232, PHYS 203A and MATH 111 will apply toward nine hours of University Core Curriculum requirements making a total of 39 in that area.

2 MATH 108 and MATH 109 substitute for MATH 111. Hours will be (3) + 3. Total hours for the degree remains 126 when the extra hours are counted as an architecture elective.

**Architectural Studies Courses**

**ARC121 - Design Communication I** 121-4 Design Communication I. (Same as ID 121) Introduction to basic drawing and graphic modeling for interior design, architecture, and graphic communication. Instruction in two- and three-dimensional visualization of form and space. Topics: freehand drawing and drafting skills, orthographic projection, shade and shadow, paraline drawing, sketching, drawing and projection composition, and perspective geometry and projection. Restricted to Architectural Studies and Interior Design majors. Studio Fee: $48.

**ARC122 - Design Communication II** 122-4 Design Communication II. (Same as ID 122) Continuation of Design Communication I. This course is a continuation of sketching and black and white drawing techniques. The introduction of color and color presentation techniques with emphasis on advanced interior design and architectural graphics and presentation composition. Prerequisite: ARC 121 or ID 121. Restricted to Architectural Studies and Interior Design majors. Studio Fee: $48.

**ARC199 - Individual Study** 199-1 to 10 Individual Study. Provides first-year students with the opportunity to develop a special program of studies to fit a particular need not met by other offerings. Enrollment provides access to the resources of facilities of the entire institution. Each student will work under the supervision of a sponsoring staff member. Special approval needed from the sponsor and school director.

**ARC210 - Intro to Profession** 210-3 Construction Management and Operations: Introduction to the Profession. Initial course in Construction Management and Operations (COMO) specialization series for the BSAS curriculum. Participants will develop an understanding of the wide range of opportunities for COMO, explore applicable standards of practice, industry-based code of ethics, interact with allied and associated organizations, identify certification requirements, and understand the technical challenges of COMO.

**ARC231 - Architectural History I** 231-3 Architectural History I. (Same as ID 231) (Advanced University Core Curriculum Course) The study of the influences and the development of architecture from prehistoric to the 19th Century, in particular, the study of structure, aesthetics, and the language of architecture. With 232-Architectural History II, satisfies Core Curriculum Fine Arts requirement. Restricted to major in Architectural Studies.

**ARC232 - Architectural History II** 232-3 Architectural History II. (Same as ID 232) (Advanced University Core Curriculum Course) Course covers development of modern architecture and urban planning from the 19th Century to the present, and includes American, British and Continental architecture and urban planning and influences of Eastern Architecture and design. With 231-Architectural History I, satisfies
Core Curriculum Fine Arts requirement. Prerequisite: ARC 231. Restricted to major in Architectural Studies.


**ARC251 - Design I: Concept** 251-4 Design I: Concept. (Same as ID 251) Introduction to the basic principles and elements of design by means of practical and abstract applications. Development of two- and three-dimensional solutions and presentations for conceptual design problems. Emphasis is on three-dimensional thinking and communication. Prerequisite: ARC 122. Restricted to Architectural Studies and Interior Design majors. Studio fee: $48.

**ARC252 - Design II: Order** 252-4 Design II: Order. (Same as ID 252) A series of studio exercises to develop an understanding of the use of a model for structuring design information, fundamentals of programming, research, communication skills and the design process. This course is designed to satisfy the writing portion of the Communication-Across-the-Curriculum requirements. Prerequisites: ARC 251, 271 and ENGL 101. Restricted to Architectural Studies and Interior Design majors. Studio fee: $48.

**ARC258 - Work Experience** 258-1 to 30 Work Experience Credit. Credit granted for job skills, management-worker relations, and supervisor experience for past work experience while employed in industry, business, the profession, or service occupations. Credit will be established by school director evaluation. Restricted to major.

**ARC259 - Occupational Education** 259-1 to 60 Occupational Education Credit. A designation for credit granted for past occupational educational experiences related to the student's educational objectives. Credit will be established by school director evaluation. This credit may only be applied at the 100- and 200-level for the architectural studies degree unless otherwise determined by the director. Restricted to major.

**ARC271 - Computers in Architecture** 271-3 Computers in Architecture. (Same as ID 271) This course serves as an introduction to various electronic media employed within the practice of interior design and architecture. Creative and effective skills in the use of computers in interior design and architecture applications are consistently stressed. Restricted to major.

**ARC299 - Individual Study** 299-1 to 16 Individual Study. Provides students with opportunity to develop a special program of studies to fit a particular need not met by other offerings. Enrollment provides access to the resources of facilities of the entire institution. Each student will work under the supervision of a sponsoring staff member. Special approval needed from the sponsor and school director.

**ARC310 - Program Management** 310-3 Construction Management and Operations: Program Management. Explore project scope and delivery methods, compensation, forms, contract types during program phase, pre-design, and pre-construction management. Identify importance of contract delivery, administration, documentation, and control across all project phases from concept through facilities management and de-construction. Project performance, stakeholder decisions, documentation tools, and applications are examined.

**ARC314I - Expressions in Architecture** 314I-3 Expressions in Architecture. (University Core Curriculum) A study of the interconnected nature of the arts, history, environmental psychology, and architecture using the built environment as the foundation for the study. Students will learn to critically examine the built environment by learning how architecture expresses human cultures, social structures, economic and political status, and spiritual beliefs.

**ARC319 - Occupational Internship** 319-1 to 15 Occupational Internship. Each student will be assigned to a University approved organization engaged in activities related to the student's academic program and career objectives. The student will perform duties and services as assigned by the preceptor and coordinator. Reports and assignments are required to be completed by the student. Hours and credits
to be individually arranged. Mandatory Pass/Fail. Restricted to major in architectural studies. Special approval needed from the instructor.

**ARC320 - Architectural Co-op Education** 320-1 to 12 Architectural Cooperative Education. The student will participate in an Architectural Studies approved cooperative education program that includes formal instruction, training and/or career related work experiences. Students receive a salary or wages and engage in pre-arranged assignments related to their academic program and career objectives. Program faculty evaluations, cooperative agency student performance evaluations and student reports are required. Cooperative experience may be in one or more of the following broad areas: (a) schematic design, (b) design development, (c) construction documents, (d) bidding or negotiations, (e) construction administration. Hours and credit to be individually arranged. Restricted to major in architectural studies. Special approval needed from the instructor.


**ARC342 - Build Technology III: Steel** 342-4 Building Technology III: Steel. Correlation of the design development and construction documents phases of a building project. Development of the project from design development through construction drawing phases with appropriate drawings required for each phase. Prerequisite: ARC 242. Restricted to major. Studio fee: $48.

**ARC350 - Technical Career Subjects** 350-1 to 32 Technical Career Subjects. In-depth competency and skill development and exploration of innovative techniques and procedures used in business, industry, professions, and health service occupations offered through various workshops, special short courses, and seminars. Hours and credit to be individually arranged. This course may be classified as independent study. Special approval needed from the instructor and school director.

**ARC351 - Design III: Context** 351-5 Design III: Context. Continuing study of architectural design. Projects of increased scope and complexity. Continue design process study (synthesis) and appropriate design presentation (communication). Working with impingement introduced by external agencies such as social, government, and community, as part of a larger context of planning. Study of the impact of site development, for on-site as well as external, contextual issues. Prerequisite: ARC 252. Restricted to major. Studio fee: $60.

**ARC352 - Design IV: Complexity** 352-5 Design IV: Complexity. Completion of complex design projects in varied environmental settings. Rapidly paced projects designed to provide the maximum exposure to complex architectural typologies. Analysis of facility program toward management of complex patterns. Prerequisites: ARC 351, 381. Restricted to major. Studio fee: $60.

**ARC353 - Vertical Studio** 353-4 to 6 Architectural Vertical Studio. A series of studio exercises designed to allow students to earn credit for ARC 251, 252, 351, 352, 451, 452, or ID 251 or 252. Projects are designed to fulfill the goals of the course for which this is substituted. Prerequisites and course work load vary according to the course for which this is substituted. Sophomore standing or higher required. Course may be repeated for up to 14 credit hours. Restricted to major in Architectural Studies or Interior Design. Studio fee: $12 per credit hour.


**ARC362 - Structures II: Wood & Concrete** 362-3 Structures II: Wood and Concrete. Study of wood and concrete structural framing systems: investigation of wood and concrete materials and their limitations, and the use of appropriate structural design procedures for wood and concrete structures through
selection of appropriate, common and economical shapes to satisfy building structural requirements and applicable building code requirements. Prerequisite: ARC 361. Restricted to major.

ARC381 - Envir Design I: Site Planning 381-2 Environmental Design I: Site Planning. The fundamentals of site planning with reference to the historical, environmental, climatic, technologic, and legal aspects in site design. Introduction to use of surveying equipment and the preparation of a site design with emphasis on the principles of sustainable design. Restricted to major. Studio fee: $24.

ARC399 - Individual Study 399-1 to 16 Individual Study. Provides students with the opportunity to develop a special program of studies to fit a particular need not met by other offerings. Enrollment provides access to the resources of the entire institution. Each student will work under the supervision of a sponsoring staff member. Special approval needed from the faculty sponsor and school director.


ARC411 - Time, Value & Risk Mgmt 411-3 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. Prerequisite: ARC 210 and ARC 310.

ARC412 - Construction Project Mgmt 412-4 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. Prerequisites: ARC 210 and ARC 310.

ARC413 - Budget & Cost Mgmt 413-3 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. Prerequisites: ARC 210 and ARC 310.

ARC434 - Preservation Field Studies 434-3 Preservation Summer. (Same as HIST 496B) Field experience in research and historic preservation issues related to regionally and nationally significant historic sites in southernmost Illinois between the Ohio and Mississippi rivers. Not for graduate credit. Special approval needed from the instructor.

ARC444 - Architectural Field Studies 444-1 to 6 Architectural Field Studies. In site study of specified world area(s) concerning the influence of the region's particular culture on architecture, landscape, urban and interior design. The course reviews both historic and current; ethnicity, social, philosophical, religious, economic and political values of the region being visited to gain insights on the symbiotic relationship between culture and design. Not for graduate credit. Fees: cost of transportation, lodging, access fees and general cost related to delivery of the curriculum items that are in addition to on-site courses. Special approval needed from the instructor and school director.

ARC451 - Urban Design & Community 451-6 Urban Design and Community. (Same as ARC 555) 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. Not for graduate credit. Prerequisite: ARC 352. Restricted to major. Studio fee: $72.

ARC452 - Design VI: Integration 452-6 Design VI: Integration. (Same as ARC 556) 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. Not for graduate credit. Co-requisite: ARC 482. Prerequisites: ARC 342, 362, 451, 481. Restricted to major. Studio fee: $72.

ARC462 - Analysis & Lateral Forces 462-3 Structures III: Analysis and Lateral Forces. (Same as ARC 562) 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. Not for graduate credit. Prerequisite: ARC 362. Restricted to major.

ARC470 - Architectural Visualization 470-3 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. Priority enrollment is given to graduate students in ARC 570 before ARC 470 is offered. Prerequisite: ARC 271. Restricted to architecture and interior design majors. Special approval needed from the advisor.

ARC481 - Environmental Design II 481-3 Environmental Design II: Energy and Systems. (Same as ARC 583, 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. Not for graduate credit. Restricted to major.

ARC482 - Environmental Design III 482-3 Environmental Design III: Lighting and Acoustics. (Same as ARC 584, ID 482) This course provides a comprehensive overview of the luminous and sonic environment with emphasis on energy-conscious design. Not for graduate credit.

ARC499 - Individual Study 499-1 to 16 Individual Study. Provides students with the opportunity to develop a special program of studies to fit a particular need not met by other offerings. Enrollment provides access to the resources of the entire institution. Each student will work under the supervision of a sponsoring staff member. Not for graduate credit. Special approval needed from the faculty sponsor and school director.

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.


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.

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.

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 & Systems. (Same as ARC 481, 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.

**ARC584 - Env Des III: Light & Acoustics** 584-3 Environmental Design III: Lighting & Acoustics. (Same as ARC 482, ID 482) This course provides a comprehensive overview of the luminous and sonic environments 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** 594-3 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** 595-3 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** 596-3 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. Prerequisite: ARC 595 with a minimum grade of B-.

**ARC597 - Construction + Evaluation** 597-3 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.

**Architectural Studies Faculty**

- **Brazley, Michael D.**, Associate Professor, Ph.D., University of Louisville, 2002, B.Arch., Howard
  University, 1978.
- **Davey, Jon**, Professor, Ph.D., Southern Illinois University Carbondale, 2011.
- **Dobbins, John K.**, Interim Director and Associate Professor and Head of Master of Architecture
- **Gonzalez-Torres, Rolando E.**, Associate Professor, Ph.D., Universitat Politecnica de Catalunya, Spain,
- **Huang, Qian.**, Assistant Professor, Ph.D, Purdue University, 2013.
- **Lach, Norman**, Assistant Professor, M.Arch., University of Illinois Champaign, 1974.
- **LaGarce, Melinda**, Associate Professor, Emerita, M.F.A., Texas Technology University, 1972.
- **McDonald, Shannon.**, Associate Professor, M.Arch., Yale University, 1992.
  B.Arch., University of Arizona, 1975.
- **Smith, Peter B.**, Associate Professor, M.Arch., University of Illinois, 1980.
- **Swenson, Robert.**, Associate Professor, Emeritus, M.Arch., Yale University, 1969.
- **Wendler, Walter V.**, Chancellor Emeritus, Director and Professor, Emeritus, Ph.D., University of Texas,

---

**Last updated: 01/12/2017**

**Southern Illinois University**
Carbondale, IL 62901
Phone: (618) 453-2121

**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.