On-line ARC554-943  

On-line Studio Syllabus

Graduate Architectural Design/Thesis II Project

School of Architecture | College of Applied Sciences and Arts | Southern Illinois University Carbondale

Online Summer 2015 | 6 Credit Hours

Catalogue Description

ARC554-6 Graduate Architectural Design/Thesis I  

Continuation of the ARC552 online studio setting began Summer 2014 resulting in the conclusion, presentation, and final approval of the individual design/thesis project in an online studio setting.

Prerequisite

Successful completion of ARC 552 or approval of the Head of the Graduate Program

Studio/Faculty Contact hours

Once a week

Other  |  by appointment

Instructor/ 

Professor Jon Daniel Davey PhD, AIA

Thesis Chair

618-559-8931  or  618-453-3734 (SIU SoA)

jdavey@siu.edu

This material borrows heavily from my ARC552 syllabus and course description revised for the online program from syllabi prepared by Professor Robert Swenson, Professor Michael Brazley, Summer 2014, Professor Jon Davey, Summer 2014, Professor Craig Anz in 2009, Walter Wendler & Steve Turnipseed in 2012, 2013, 2014, and official documents of the School of Architecture and Southern Illinois University

statement of purpose

As an extension of the research components, the purpose of this studio is to complete the development of an architecture that effectively and critically engages ongoing research and its role in architectural and design endeavors. Students will continue to extend foundations for research, basis issues and concepts, methods, and programming to the design of the thesis project. The culmination of previous work on the thesis project will indicate, through an architectural program and subsequent design, the pragmatic understanding of architecture that is generally expected of professional degree graduates and entry-level professionals.

The goal is to have a total architectural project that consciously denotes formal inquiry and critical thinking, connecting one's creative endeavors within a greater body of knowledge, but also connects the essential reasoning for architectural artifacts. The thesis product will be presented to the online class section cohort and committee members at scheduled review times, where recommendations will be made toward fulfillment of final requirements and formally at the SIU School of Architecture at the end of the semester for “Final Review and Approval” prior to graduation. The student will prepare for these reviews a defined set of criteria and significant questions to present to their cohorts and reviewers and section cohort members for input prior to formal (or informal) presentations.

These reviews are intended to foster interaction and co-tutoring, thus building collective and critical knowledge bases, but also to guide us effectively through the processes. While completing the development of a comprehensive graduate thesis project, you are encouraged to extend your horizons and see the diversity of viewpoints through outside, formal peer-review and possible professional and/or organizational presentations.

course objectives

Upon completion of this course, the student will have completed the requirements for graduation, including:

1. Develop an architectural project that is the culmination of the online design studio experience.
2. Apply design principles developed in previous graduate online studios and seminars.
3. Develop the use of innovative and emerging design technology.
4. Apply sustainable design principles in the urban and regional planning process.
5. Develop individual personal architectural goals and interests.

6. Continue to prepare reasoned and responsible informed design initiatives through formal research of allied design disciplines and convey their strategy through effective verbal, graphic, and written skills.

7. Continue to critically understand and apply basic standards for research quality, responsibility, judgment, and ethical practice as well as the basic premise of to "do-no-harm," albeit extended into responsible design practice.

8. Produce a final version of your architectural thesis-design project at a "Design Development" level informed by a comprehensive program - from schematic design through the detailed development of programmatic spaces, structural and environmental systems, life-safety provisions, wall sections, and building assemblies, as may be appropriate; and to assess the completed project with respect to Graduate program design criteria.

9. Complete the corresponding written documentation into thesis format to meet university requirements and NAAB criteria for a professional degree.

10. Present for final review and approval by your Thesis Committee.

**Methodology**

Desire2Learn and AdobeConnect will be used throughout the semester in several ways. Assignments and other handouts will be available on the D2L site for your use. You will post your individual in-progress work online periodically, assembling a database for you and your classmates to access. You should be able to engage with anyone in your section at anytime. You will also be expected to upload any and all relevant information you find related to the overall goals of the design thesis project for you classmates to use as well. See **Semester Work Requirements** and **Calendar** below.

**Coordination**

This thesis studio will again NOT be co-taught, meaning that each studio section will operate as a single entity facilitated by your assigned faculty Thesis Project Chair who is responsible for supervising, educating, and grading. All students in each section will have access to a second comprehensive ARC554 D2L site. Throughout the course of the semester you will have individual crits and reviews on a weekly basis with your faculty Chair individually and/or together with other members of your particular section only. We expect (or want) that you will take the advice and suggestions of your outside critics and classmates to help formulate your own design decisions. Analyze and understand how they have the potential to affect your project, and make your decisions based on what pushed your project most purposefully in the direction of your concept or thesis. Every choice you make has many, many options. It is ultimately up to you to choose the option that you believe is right for your design project. We are here to help you explore and understand the potential those options have for your project.

**Studio Space Supplies, Equipment**

This will continue to be a virtual studio with each student in their own respective satellite location, each completing a different and unique thesis design project. Each student is responsible to provide all pertinent materials required to work in studio toward meeting deadlines, reviews, and/or the completion of their respective final projects.

**Attendance/Production Policy**

This section will work independently with their respective faculty and committee members. In order for the studio/course and your own experience to be fully developed, each individual needs to be abreast of the assigned workload. One appointment per week for a progress check will be required of each student. Each student is required to present on-campus at the end of the semester for Final Review and Approval by the thesis committee.

**Student Conduct**

Please review Chapter 7 Student Conduct Code in the SIU UNDERGRADUATE/GRADUATE CATALOG regarding University policy regarding Acts of Academic Dishonesty - In particular to this course, students are to do their own work. Do not trace, lift, sample, or copy, including electronic copies, of any other's work unless specifically cleared with your instructor and properly cited/sourced. If there is any question, do not hesitate to ask. Additional NOTE: This class will be conducted in a professional manner and as such will also be considered a 'zero tolerance' atmosphere. Any discrimination towards another person or otherwise will be acted upon accordingly.
If there is any problem or concern that you have which might impact your performance in this class, please inform the instructor the first week of class. To be registered for this class, you must satisfy the prerequisites for the class. If this is not the case or you are uncertain, you must contact your instructor, advisor, or Chair immediately. NOTE: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the appropriate campus department involved with services for students with disabilities. See the "SIU Carbondale Syllabus Attachment – Fall 2014" provided on our D2L course site and by email attachment.

The Studio Culture Policy in force for this class is posted on the web at: http://emarch.architecture.siuc.edu/studio-

Projects are due on the hour and date specified for submittal or presentation. You are to submit in PDF format to the D2L Dropbox for this course to meet the required deadline AND then to my email account robert.swenson41@gmail.com. Late projects will be considered for evaluation only with prior approval by the instructor and thesis committee.

• Each student will be working individually and shall be completely responsible for his or her own work.
• Each project will have associated with it a set objectives or expected behavioral outcomes. The purpose of attaching these outcomes to the projects is to insure that a range of awareness and understanding are developed, expanded and tested.
• Areas of interest will form the basis for grading on each project. These criteria are adopted for the NAAB accrediting requirements for professional programs in architecture (listed below)
• All grades for thesis work are Pass/Fail (Satisfactory/Unsatisfactory or Deferred). Students will be assigned a passing/satisfactory grade if they successfully present for Final Review and Approval at the end of the semester.

All students in this studio section should have developed during the Summer 2015 your thesis project completed to a “Schematic Design” level, including a 30-50% level of completion of the written design/thesis booklet. It is my belief that most of you have successfully addressed:

1. Your individual Thesis Statement
2. Challenges and issues from the building type or project that you've identified, including but not limited to physical, social, economic, aesthetic, cultural implications, and issues related to Sustainable Design.
3. Precedent Studies
4. Completed your comprehensive Facility Program (to be an integral part of your written thesis document)
5. Identified, selected, and completed site research.
6. Compiled a bibliography representing an understanding of the project type and its parameters.
7. Submitted Posters and a preliminary written document representing the above work
8. Other NAAB requirements mentioned at the end of this Syllabus

You will continue to be getting advice from me, HOWEVER, you are still encouraged to develop a relationship with an architect, other design professional, or expert in your project type and focus in YOUR particular city or locale to serve as a critic/advisor to your project. You are to make use of this person’s expertise to help guide you into the research and real-life situations needed to develop accuracy and depth to your thesis project.

We have 16 weeks, including breaks, before you submit your work in its final form digitally on Monday, Dec 14, 2015. We will plot and print your final submissions and you will formally present your design thesis project publically at the School of Architecture on Thursday, Dec 17 and/or Friday, Dec 18 prior to a formal commencement ceremony on Saturday, Dec. 19, 2014.
Progress Submissions: We will continue to meet individually at your set Crit time to monitor progress and update completion status.

Final Submission: Your final submission will include a complete “written thesis document” and two 3 feet wide and 7 foot tall posters with titles that together fully describe and illustrate your design thesis project. You will personally present your design thesis project to a public audience at the SIU School of Architecture for final review and approval prior to graduation.

calendar/schedule

School of Architecture – Fall 2015: The Fall Semester Thesis Studio Calendar is a separate document on D2L and as an email attachment. It is intended to provide for the coordination of due dates for design project presentations & reviews, written documents, lectures, and other activities central to the life of the students in our Master of Architecture program. Our collective adherence to it will provide the highest and best educational opportunities for our students by allowing focus and unnecessary conflict in schedules. **NOTE:** Please refer to the calendar that is set up in D2L as the “official” calendar

Special Notes: Fall classes begin Monday, August 24, 2015
Labor Day Holiday - Monday, Sept 7, 2015
Fall Break – Sat, Oct 10 thru Tues, Oct 13
Veterans’ Day Holiday – Tues, Nov 11, 2015

- **Final Presentation at SoA Carbondale, Thurs, Dec 17 & Fri, Dec 18, 2015**
- **Commencement to be held December 19, 2015 at SIU Carbondale campus**

All Breaks begin officially at 10:00 p.m. the night before and end at 7:30 a.m. the morning after the respective noted beginning and ending dates listed, unless otherwise.

NAAB Student Performance Criteria

NAAB 2009 Student Performance: Educational Realms & Student Performance Criteria

The NAAB requires that an “accredited degree program must ensure that each graduate possesses the knowledge and skills defined by the criteria set out below. The knowledge and skills are the minimum for meeting the demands of an internship leading to registration for practice.”

Understanding —The capacity to classify, compare, summarize, explain and/or interpret information.

Ability — Proficiency in using specific information to accomplish a task, correctly selecting the appropriate information, and accurately applying it to the solution of a specific problem, while also distinguishing the effects of its implementation.

The National Architecture Accreditation Board (NAAB) 2009 Student Performance Criteria are based on three “Realms” of accomplishment:

Realm A: Critical Thinking and Representation:

Architects must have the ability to build abstract relationships and understand the impact of ideas based on research and analysis of multiple theoretical, social, political, economic, cultural and environmental contexts. This ability includes facility with the wider range of media used to think about architecture including writing, investigative skills, speaking, drawing and model making. Students’ learning aspirations include:

- Being broadly educated.
- Valuing lifelong inquisitiveness.
- Communicating graphically in a range of media.
- Recognizing the assessment of evidence.
- Comprehending people, place, and context.
• Recognizing the disparate needs of client, community and society.

**Realm B: Integrated Building Practices, Technical Skills and Knowledge:**

Architects are called upon to comprehend the technical aspects of design, systems and materials, and be able to apply that comprehension to their services. Additionally they must appreciate their role in the implementation of design decisions, and the impact of such decisions on the environment. Students learning aspirations should include:

• Creating building designs with well-integrated systems.
• Comprehending constructability.
• Incorporating life safety systems.
• Integrating accessibility.
• Applying principals of sustainable design.

**Realm C: Leadership and Practice:**

Architects need to manage, advocate, and act legally, ethically and critically for the good of the client, society and the public. This includes collaboration, business, and leadership skills. Students learning aspirations include:

• Knowing societal and professional responsibilities.
• Comprehending the business of building.
• Collaborating and negotiating with clients and consultants in the design process.
• Discerning the diverse roles of architects and those in the related disciplines.
• Integrating community service into the practice of architecture.

*Student Performance Criteria specific to ARC54 Online Graduate Architecture Thesis Studio II*

NAAB A.1. Communication Skills
NAAB A.2. Design Thinking Skills
NAAB A.2. Investigative Skills
NAAB A.6. Use of Precedents
NAAB A.5. Investigative Skills
NAAB B.3. Codes and Regulations
NAAB B.4. Technical Documentation
NAAB B.5. Structural Systems
NAAB B.6. Environmental Systems
NAAB B.7. Building Envelope Systems and Assemblies
NAAB B.9. Building Service Systems
NAAB C.1. Research