

Praxis III 48.400
18 Units

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Tuesday/ Thursday 1.00-4.50pm In Person

Instructors:

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Design Integration:

Considering architecture as a synthesis of space, material and building services has been a challenge for architects since the technological inception that a building should address shelter, comfort and aesthetics. This along with a need to be sustainable in our thinking about material use and energy has made the idea of building an ever more difficult endeavor.

This studio will look at this question and attempt to navigate this challenge through collaborative team working methods and the introduction of outside experts.

Learning Objectives:

1. To understanding and document topics related to zoning, building codes and accessibility.
2. To understand fundamental principles of structure, enclosure (envelope), environmental control systems, and life safety systems.
3. Ability to develop the fundamental aspect(s) of your proposal through the measurable outcomes of building performance such as: daylighting, energy, natural ventilation and structural analysis.
4. Ability to develop clear, accurate and directed questions and find through your architectural training techniques and methods to study, evaluate and rework your design thinking for an optimal response.
5. Ability to make technically clear drawings isolating the related elements that make up a comprehensive building.
6. To understand the basic principles of the selection and application of envelope systems that address performance, aesthetics, moisture transfer, durability, energy use and material resources.
7. Understand the basic principles and application of building services such as lighting, mechanical, plumbing, electrical, vertical transportation, security and fire protection.
8. Ability to demonstrate the skills associated with making integrated decisions across multiple systems: including identifying challenges, determining evaluative criteria for making decisions, analyzing potential solutions and determining the effectiveness of its implementation.

One analogy of this complexity of integration is to compare the art of building to a form of anatomy – a system of components that have over time optimized for efficiency, life cycle, endurance and repair.

NAAB Criteria:

These series of ASO studios have been developed to demonstrate the following through the studio project:

[SC.6- Building Integration- How the program ensures that students develop the ability to make design decisions within architectural projects while demonstrating integration of building envelope systems and assemblies, structural systems, environmental control systems, life safety systems, and the measurable outcomes of building performance.](#)

Review Schedule:

Site Analysis, Zoning, Building Code, Program, Structure

R1 (two days) 09.19 & 09.21, (1.00-4.50pm)

09.19 Cochran- Hameen w/ SoA faculty G. Damiani, S. Lee, J. Lee (2 hours)

09.19 Damiani w/ SoA faculty E. Cochran- Hameen, S. Lee, J. Lee (2 hours)

09.21 Lee w/ SoA faculty E. Cochran-Hameen, G. Damiani, J. Lee (2 hours)

Systems/ life safety/ accessibility w/ revised Analysis, Building Code, Program, Structure

R2 (two days) 10.10 & 10.12 (1.00-4.50pm)

10.10 Damiani w/ SoA faculty E. Cochran- Hameen, S. Lee, J. Lee (2 hours)

10.10 Lee w/ SoA faculty E. Cochran- Hameen, G. Damiani, J. Lee (2 hours)

10.12 Cochran- Hameen w/ SoA faculty G. Damiani, S. Lee, J. Lee (2 hours)

Enclosure/ Method of Measure w/ revised Analysis, Program, Building Code, Structure and Systems

R3 (two days) Pre-Final 11.14 & 11.16 (1.00-4.50pm)

11.14 Lee w/ SoA faculty S. E. Cochran- Hameen, G. Damiani, J. Lee (2 hours)

11.14 Cochran- Hameen w/ SoA faculty G. Damiani, S. Lee, J. Lee (2 hours)

11.16 Damiani w/ SoA faculty E. Cochran- Hameen, S. Lee, J. Lee (2 hours)

Performance Reviews

Required faculty conferences 11.21 (1.00-4.50pm)

Presentations

R4 (Final Reviews)

12.14 Damiani w/ SoA faculty E. Cochran- Hameen, S. Lee, J. Lee (9.00-12.00pm)

12.14 Lee w/ SoA faculty S. E. Cochran- Hameen, G. Damiani, J. Lee (1.00- 4.00pm)

12.15 Cochran- Hameen w/ w/ SoA faculty G. Damiani, S. Lee, J. Lee (9.00-12.00pm)

Studio Guidelines:

Following the design studio tradition, the studio's pedagogical rhythm will combine frequent, individual student-instructor interaction through the form of "desk crits" with frequent, collective reviews on the state of the project through the form of "pin-ups", reflecting a strong belief that the latter are great occasions for each student to benefit from everyone's approaches, intentions and work. Continuity, perseverance, engagement, initiative, risk-taking, and receptivity towards opinions and inputs from the instructor, classmates and the external critics are expected, in the belief that through them the exercise will come to a comprehensive level of development.

Although at this point your studio process may be primarily digital, it is expected that you have a clear work area for drawing and model making. It is expected that you have a roll of trace for studio critiques, a tape measure and drawing tools. If you do not have your drawing board, a rolling ruler is required for this studio. Studio reviews will involve new work that includes models, drawings and print-outs and PDFs. It is expected for you to have new work at each studio critique or pin-up. No work, no review, no exceptions.

An 8 1/2" x 11" +/- sketchbook is required to be used exclusively for this studio, its lectures and the school's lecture series, which you are strongly encouraged to attend.

A CMU Box folder will be provided to store all final studio projects (all studio sections). All final drawings, model photographs and methods of measure are to be on the drive by the end of semester. **This work is due SUNDAY, December 17th @ 4.00pm.** No grade will be provided until this requirement is fulfilled.

[48400 Studio Documentation Box Upload](#)

Attendance:

Studio attendance is mandatory and not optional. Failure to attend a studio is a serious action which will require an email response the day of the absence outlining how you will complete the missing work and get yourself back on schedule. It is the student's responsibility to obtain missing content from the faculty member and to discuss concepts presented on the day missed with their colleagues. Missing more than three studios throughout the semester will cause a grade deduction for that part of the project and possible failure in the course beyond four absences. After four absences, a determination will be made by a scheduled meeting with the student, academic advisory and the instructor. Any outcome of that meeting will be the responsibility of the student to abide by and subject to the terms mutually discussed.

You are required to attend scheduled reviews R1, R2 & R3 both on your scheduled review date as well as the review following or preceding that day. Failure to attend these reviews will be considered an absence with the same penalty as above.

Studio References:

Each studio has its own specific list of library reference materials. They can all be found at the following link.

[Course Reserves](#)

You are encouraged to review the other sections reference materials as they may be of additional use to your specific studio project.

Grading Criteria:

The following is to help clarify how you are doing in the studio. If you want grading feedback before or after mid-semester, or at any time, please schedule a meeting with your instructor.

A: Work is outstanding at all levels: personal commitment, consistent studio-to-studio development and the work is exceptionally well represented. The student is highly motivated at all aspects of the studio without the constant direction of the studio instructor.

B: Work is a result of constant effort and development. The work shows an interest and effort in meeting the expectations of the studio. Work is new at each studio, articles are read and the student is ready and eager for discussion. Work at critical reviews is well represented and comprehensive to allow for a detailed discussion.

C: Is usually a result of a studio effort that shows an average effort. Work is rarely developed and iterated without the direction of the studio instructor. Studio effort is sporadic and mostly at critical deadlines. Work is not gradually developed and interest in the work of his or her classmates is minimal.

D: Is usually a result of little or no development, does not integrate feedback and is resistant in learning the topics presented within the studio throughout the semester. D grades can also be a result of items listed in the R grade description below but shows a slightly better result or slightly better attendance record.

R: Is usually a result of one or a few of the following: incomplete work at critical reviews, missed classes over 4 studios, little or no work is produced for each studio, lack of participation in reading sessions, little interest in viewing and discussing the work of others produced in the studio or is unwilling to integrate feedback.

All final grades are based on the following percentages:

A | 4.0 (90-100%) Superlative or exemplary work

B | 3.0 (80-89%) Very good

C | 2.0 (70-79%) Satisfactory

D | 1.0 (64-69%) Passing

R | 0.0 (0-63%) Repeat

Group Work:

Lack of completion of a group (Team) assignment will hold back the success of the larger group and will be graded according to your effort produced. Your lack of effort will not penalize the group but they will need to discuss with the instructor how to proceed for that phase of the project without your work.

If your work continues to be a problem for the larger group you may be asked to proceed with the project without the help of the larger group for that portion of the project phase. A meeting will be required with you and the instructor as to how you are to proceed.

If problems continue, you will be asked to proceed with the project on your own with the same requirements of the group for the remaining portion of the semester.

Other Courses:

As an architecture student the design studio is the primary learning tool in the School of Architecture. Using one's other courses as an excuse for a lack of studio work is not a way to succeed in the studio. If you have a critical deadline in another course, informing the studio faculty of this deadline a week in advance will help to set new expectations for the studio to allow you to succeed in your other coursework. However, work is still expected at each studio so the studio time is still productive. Studio sessions where no new work is produced will be considered an absence.

Studio Culture:

For inspiration see: [I.S.R.U.](#)

Studio is first a place for work, second a place for mutual discovery, and third a place for discussion and evaluation.

Studio activities include desk critics, pin-ups, reviews, discussions, lectures and demonstrations.

Studio Cleanout Requirements:

It is expected that you keep the studio in clean condition throughout the semester and don't abuse the facilities. At the end of the semester it is expected you will follow the guidelines set by the department for storage of personal belongings, material storage for later re-use and studio cleanup.

[Studio Cleanout requirements](#)

Diversity Statement:

It is expected that each of you will respect and help each other throughout the semester. Anyone found not respecting another classmate should be brought to the attention of the instructor.

As instructors, we will treat each of you with respect and if you feel we have not done so please bring it to our attention. During the semester some images and references presented may be uncomfortable to some students, if so, please let us know so we can make the necessary adjustments. The goal of this studio is to provide you an intellectual framework to which you can apply to other studios and practice in the future. Images and writings used in this studio are meant to help you gain a new perspective and one you can modify or edit to your own intellectual development.

To the best of our abilities we will revise this studio when possible to provide studio topics that consider diverse backgrounds and perspectives while still providing what is necessary for an accredited professional degree program in architecture. If you have knowledge of potential content you feel might be relevant to the studio providing cultural diversity to the topic, please contact your studio instructor so we can schedule a meeting to discuss what you find relevant so we can consider how to share it with the rest of the class as appropriate.

Grade Percentages:

Mid-semester grade is based on:

Review 1: 35%

Review 2: 45%

Team contribution: 20%

2nd half grade is based on:

Review 3: 20%

Review 4: 20%

Final Presentation/ Total Project Integration: 40%

Team contribution: 20%

Final studio grade is based on:

Mid-semester grade: 30%

2nd half grade: 70%

Rules & Regulations**School of Architecture Handbook:**

Each student is responsible for conducting themselves in compliance with the Undergraduate Handbook. See the School of Architecture web site to download these handbooks.

Disability Resources:

If you have a disability and are registered with the Office of Disability Resources, I encourage you to use their online system to notify your studio instructor of your accommodations and discuss your needs with them as early in the semester as possible. We will work with you to ensure that accommodations are provided as appropriate. If you suspect that you may have a disability and would benefit from accommodations but are not yet registered with the Office of Disability Resources, you are encouraged to contact them at access@andrew.cmu.edu.

Academic Integrity:

All students are responsible for conducting all coursework following Carnegie Mellon University's Policy on Academic Integrity. This policy was approved by the President's Council on April 11, 2013 and replaces the University's Policy on Cheating and Plagiarism, which was originally issued to campus on June 16, 1980 as Organization Announcement #297, and then revised in 1990. Any work copied from another student will result in failure of the assignment and possible failure of the class.

Health & Well-being:

Take care of yourself. Do your best to maintain a healthy lifestyle this semester by eating well, exercising, avoiding drugs and alcohol, getting enough sleep and taking some time to relax. This will help you achieve your goals and cope with stress.

If you or anyone you know experiences any academic stress, difficult life events, or feelings like anxiety or depression, we strongly encourage you to seek support. Counseling and Psychological Services (CaPS) is here to help: call 412-268-2922 and visit [Counseling and Psychological Services](#) for more information. Consider reaching out to a friend, faculty or family member you trust for help in getting connected to this support.

Resolve Crisis Network: 888-796-8226

If the situation is life threatening, call the police

On-campus: CMU Police: 412-268-2323

Off-campus: 911