

Clemson University
School of Architecture

ARCH 2510 / 2511 : ARCHITECTURE FOUNDATIONS + LAB

Fall 2022

Start date: Aug 24, Wed

Last day to register or add a class: Aug 30, Tue

Last day to drop a class or withdraw from the University without a W grade: Sep 6, Tue

Midterm grades: Oct 14, Fri

Last day to drop a class or withdraw from the university without final grades: Oct 28, Fri

Final review: Dec 5 Mon or Dec 7 Wed

Final submission: Dec 16 - Final Grades due: Dec 21

Class meeting Time: **M W F** 1:25pm – 5:30pm [Lee1 - north & east studios]

Oral Communication: **W** 1:25pm – 2:15pm [Lee2-111]

Time to wait: Please wait for 15 minutes if the professor is late before leaving class.

Modality: In person, maybe switched to hybrid according the University Policies

Design Studio Instructors:

Section 1*	Berrin Terim	bterim@clermson.edu	Lee1-160	office hours (by appointment)
Section 2	Kendall Roberts	krober6@clermson.edu	N/A	office hours (by appointment)
Section 3	Harrison Floyd	hfloyd2@clermson.edu	Lee1-162	office hours (by appointment)
Section 4	Byron Jefferies	bjeffe@clermson.edu	Lee1-158	office hours (by appointment)
Section 5	JD Gutermuth	jguterm@clermson.edu		office hours (by appointment)
Section 6	Janelle Schmidt	janell6@clermson.edu	Lee1-158	office hours (by appointment)
Section 7	Bryan Beerman	bambeerm@clermson.edu	Lee1-157	office hours (by appointment)
Section 8	Stacy Scott	shs5@g.clemson.edu		office hours (by appointment)

Design Studio TA's :

Osama Hashem	ohashem@clermson.edu
Mahshad Nami	mnam@clermson.edu
Matthew Ngango	mngango@clermson.edu
Kevin Arnold	kra@g.clemson.edu
Scurry Charles	cscharl@g.clemson.edu

TA OFFICE HOURS : Sunday – Tuesday – Thursdays : 6:00 – 7:00pm. + by appointment

Oral Communication Instructor:

Marianne Glaser herr@clemson.edu Strode 410 office hours (by appointment)

Oral Communication TA:

Kevin Nutt knutt@g.clemson.edu

Preferred mode of communication: Email

You are expected to check your Clemson email address at least once a day for potential messages dealing with this course. You can reach out to your professors via email and expect a response to your inquiries within 36 hours, excluding weekends and university holidays.

Course Description:

Architectural analysis and design problems with a focus on understanding the context of architecture. Specific investigation of buildings as part of the cityscape and the landscape. Instruction on visual communications skills, computer modeling, and oral presentation techniques support the design discussions.

Prerequisites: [ARCH 1510](#). Corequisites : [ARCH 2511](#).

Learning Objectives / Outcomes:

Design Thinking (SC.1 and SC.3) (Critical Thinking)

- Students will learn how making can be a generator for design and apply critical thinking to the process.
- Students will understand design as an iterative, reflective, and rigorous process.
- Students will be introduced to the fundamentals of space planning, codes, ADA, etc. SC.1 Health, Safety, and Welfare in the Built Environment SC.3 Regulatory Context
- Students will understand architectural scale and its effect on design.

Contextual and Environmental

- Students will understand the fundamentals of site analysis and its implication for a design project.
- Students will learn how to analyze a three-dimensional landscape and work with it to site an architectural project.

Design Communication (Communication)

- Students will create graphic layouts presenting projects and communicating ideas clearly and effectively.
- Students will interpret and produce procedural and analytical diagrams.
- Students will document appropriate stages of a project in order to explain their design process. (REVIEW AND NEW)
- Students will apply effective documentation techniques (photography, scanning) that record analog studies in the digital realm.
- Students will be introduced to an architectural portfolio to communicate their projects with its design evolution.
- Students will apply appropriate drawing conventions for specific scales.

Technical Skills (SC.4 Technical Knowledge) (Integrated Building Practices)

- Students will understand the most common construction methods, materials, and tectonics used in architecture. (NEW)
- Students will be able to create physical models using a variety of tools and materials.
- Students will be able to apply appropriate techniques of fabrication to their design projects, understanding the advantages and constraints of digital and analog tools.

Digital Tools

- Students will apply modeling skills in Rhino 3D, with additional operations introduced (lofting, sweeping, splitting, boolean, unrolling etc.)
- Students will make architectural drawings from detailed three-dimensional computer models.
- Students will learn the workflow from three-dimensional computer modeling and vector drawing to fabrication.

Studio Culture (PC.7 Learning and Teaching Culture)

- Students will learn how to use studio time effectively for developing their projects including opportunities for desk crits, workshop time, and collaborative studio interactions.

Oral Communication

- Students will demonstrate an ability to articulate one's design ideas using a rich architectural vocabulary, appropriate presentation structure, and strong delivery skills.
- Students will communicate a divergent stream of thought and evaluation of multiple approaches in design.
- Students will cultivate the ability to provide and respond to constructive criticism and feedback for self and others.

Required Materials:

Required Text Oral Communication:

Beebe, Steven, and Susan Beebe. *A Concise Public Speaking Handbook: 5th Edition*. Allyn& Bacon, 2018.

Recommended Text:

Ching, Francis D.K., *Building Construction Illustrated*. Wiley, 2008

Hejduk, John, et al. *The Education of an Architect*. Rizzoli

Engel, Heino, *Tragsysteme / Structure Systems*. HatjeCantz, 2009.

Required Computer Software: Rhino 6 (full PC version) + Autodesk AutoCAD + Adobe Creative Suite, (Illustrator, Photoshop and InDesign)

Other items: Power surge outlet (see Lee Hall Complex Rules for requirements) Safety glasses for the woodshop.

Required Materials and Supplies: All materials from ARCH 1510 + at the start of each project required materials will be specified.

Learning Environment:

This is a studio – class. You should expect only 10-20% of the studio time to be devoted for tutorials/ in-class instructions / lectures. These will be delivered with an expectation of immediate execution / demonstration on your end in your projects. Your learning heavily depends on your rigorous and steady efforts of applying the things you learn to your projects.

Being engaged, curious and eager to experiment, collaborating with your peers and being open to discussion / feedback are the most critical merits to take full advantage of this learning environment. You will be successful in this course by :

- Coming to each class prepared by developing your design based on the feedback you receive.
- Reflecting on the learning objectives as you are working on the assignments.
- Being respectful of others
- Actively contributing to the learning activities in class
- Abiding by the University Academic Integrity Policy

Topical Outline:

Week 1-8: PROJECT 1 – (Making leads to design - abstract)

- Conceptual design
- 4 making techniques
- Representation

Week 8-16: PROJECT 2 – (Design leads to making - real)

- Material - detail analysis
- Site analysis
- Architectural design of an approximately 10,000 sqft public building.

Assessment of Student Performance and Grading Values:

- | | | |
|---|-----|------------------------|
| • PROJECT 1 – (Making leads to design - abstract) | %40 | due: midterm week |
| • PROJECT 2 – (Design leads to making – real) | %40 | due: final review week |
| • Oral Communication (Test: %8,5 & Speech: %8,5) | %17 | |
| • Digital Documentation | % 3 | due: finals week |

Important note: For Project 1 you will be working in pairs, and Project 2 will be individual projects. For Project 1 you will be graded based on the development of the project and the final outcome, expected to be pursued with equal efforts of both partners. Accordingly, both partners will receive the same grade. If your final grade in Project 1 doesn't reflect your individual effort, you should kindly let your professor inform about your concern. During Project 2, if the professor sees a big gap in the individual performance of the former pairs, she/he holds the right to increase or decrease the individual grades for Project 1.

Major Assessment/Grading Activities:

For design studio portion of this class, you will have 2 projects in total. Individual assignments that help you develop the project are outlined on Canvas, with specific grade distribution, as well as stated in your

assignment sheets. A general rule of thumb, final deliverable of the project is always significantly higher in weight than the scaffolding assignments along the way.

Grading System:

The following definition of letter grades is from the University Undergraduate Announcements – Academic Regulations:

A— (90-100) Excellent indicates work of a very high character, the highest grade given.

B— (80-89) Good indicates work that is definitely above average, though not of the highest quality.

C— (70-79) Fair indicates work of average or medium character.

D—(60-69) Pass indicates work below average and unsatisfactory, the lowest passing grade.

F—(< 60) Failed indicates that the student knows so little of the subject that it must be repeated in order that credit can be received.

I—Incomplete indicates that a relatively small part of the semester’s work remains undone. Grade I is not given a student who made a grade F on his/her daily work. For further information please see the Undergraduate Announcements – Academic Regulations.

W—Withdraw indicates that the student withdrew from the course or was withdrawn by the instructor after the first two weeks of classwork and prior to the last seven weeks of classes, not including the examination period. For further information please see the Undergraduate Announcements – Academic Regulations.

Grading Policies:

- All projects will be graded by your section professor only.
- All grades will be posted on Canvas within two weeks of completion for each assignment, unless otherwise notified.
- For any grade grievances, the “24/7” policy is in effect. Once assignment grades are handed back, there is a 24-hour waiting period before they will be discussed with the student. Grade issues that are not addressed within one week will be closed for discussion.
- Final grades at the end of the semester are final. There will be no “rounding up” to avoid failure of the class or to move up a letter grade.
- You are expected to have new work at every studio class period. You must make progress in order to receive feedback from your professors. This is to emphasize the importance of an iterative process and to ensure class time is productive for you, your classmates, and your professors. Do not come to studio without progress work on your project. Faculty reserve the right to decline any comment towards the student with nothing to offer and the lack of work will be reflected in the project grade.
- All assignments must be completed. Any missed assignment warrants failure of the course.
- A student wishing to protest a course grade must first try to resolve any disagreement with the instructor. If unable to reach a resolution, the student may follow the procedures listed under “Academic Grievance Committee” in the Student Handbook.

Late Work:

Each assignment is a stepping stone for the next one. Therefore, late work eventually jeopardizes your success in the overall project. We understand that there might be times that you cannot deliver the work on time, however, it is your responsibility to make up for the time you missed in class. You are expected to upload your assignment to Canvas within 24 hours of the due date (given in the course calendar), so that your professor can grade it there. Late work will be accepted but will be penalized by 10 points each week it is late. The only exception to this policy is for assignments associated with a documented excused absence.

MAKE-UP WORK DUE TO MISSED ATTENDANCE

1. If you are absent and miss assignments, please work with your section professor to develop new due dates. If the missed work is due to illness or other excused absence, no penalty will be incurred. If the absence is due to an unexcused absence, please see the Late Work policy above.
2. Course instructors will seek to make reasonable accommodation for a student involved in University-sponsored activities. Absences do not lessen the need to meet all course objectives.

Absences:

Students are expected to be on time and attend all classes for the durations of the class. **Accumulating more than six (6) absences during the semester will automatically result in failure of the course.** If you are sick, please do not come to class. Inform your professor and the absence will be excused. If you are in quarantine, please do not come to class. The professor will make arrangements to connect with you virtually and the absence will be excused.

Two (2) Mental Health Days will be given each semester. Please email your professor to let them know you are taking a mental health day, and that will be considered an excused absence as well. Policies on attendance are available in the Academic Regulations section of the Undergraduate Catalog. The section includes specific expectations and guidance regarding attendance policy, enrollment, anticipated absences, unanticipated absences, excused absences, appeals, and auditing. Some of the most pertinent information is described below.

Course instructors are obligated to honor exceptions to attendance policy for students covered by the Americans with Disabilities Act, as verified through paperwork issued by Student Accessibility Services.

Notification of Absence:

The **Notification of Absence module in Canvas** allows students to quickly notify instructors (via an email) of an absence from class and provides for the following categories: court attendance, death of immediate family member, illness, illness of family member, injury, military duty, religious observance, scheduled surgery, university function, unscheduled hospitalization, other anticipated absence, or other unanticipated absence.

The notification form requires a brief explanation, dates and times. Based on the dates and times indicated, instructors are automatically selected, but students may decide which instructors will receive the notification. This does not serve as an “excuse” from class. It is a request for an excused absence and students are encouraged to discuss the absence with instructors, as the instructor is the only person who can excuse an absence. If students are unable to report the absence by computer, they may reach the Office of Advocacy and Success. Students with excessive absences who need academic or medical assistance can also contact the Office of Advocacy and Success.

Inclement weather or emergency: Any exam that was scheduled at the time of a class cancellation due to inclement weather will be given at the next class meeting unless contacted by the instructor. Any assignments due at the time of a class cancellation due to inclement weather will be due at the next class meeting unless contacted by the instructor. Any extension or postponement of assignments or exams must be granted by the instructor via email or Canvas within 24 hours of the weather-related cancellation.

POLICIES ON INCOMPLETES AND MEDICAL WITHDRAWALS

- Issuing an “Incomplete” grade (I) to a student is an option if a student is unable to complete make-up work in a timely manner due to illness or other issues. An Incomplete indicates that a relatively small part of the semester’s work remains undone. It is not intended for students who are failing a course otherwise. In the event that an Incomplete is appropriate, students will contact instructors in a timely manner so that instructors can provide a reasonable opportunity to complete remaining work. Instructors and students will work together to resolve the Incomplete grade as soon as possible, not to exceed thirty days from the first day of classes in the next scheduled session (excluding summer sessions and regardless of the student’s enrollment status).
- Sometimes due to illness (including COVID-19 related illness) or other life circumstances, students may not be able to complete academic work for the term and will need to withdraw from all classes. The Division of Undergraduate Studies will process medical withdrawals. Students should contact the Division by sending an email from their Clemson email address to Lisa Traynham at litravn@clemson.edu.

STANDARD ACADEMIC POLICIES

For standard academic policy language and up-to-date student resources, see the University Policy and Student Support Syllabus Part 2.

Academic Integrity

As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning." Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

All infractions of academic dishonesty by undergraduates must be reported to Undergraduate Studies for resolution through that office. In cases of plagiarism instructors may use the Plagiarism Resolution Form.

See the [Undergraduate Academic Integrity Policy](#) website for additional information and [the current catalogue](#) for the policy. For graduate students, see the current [Graduate School Handbook](#) for all policies and procedures.

Accessibility

Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to this class should let the instructor know and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-656-6848, by emailing studentaccess@lists.clemson.edu, or by visiting Suite 239 in the Academic Success Center building. Appointments are strongly encouraged – drop-ins will be seen, if at all possible, but there could be a significant wait due to scheduled appointments. Students who have accommodations are strongly encouraged to request, obtain and send these to their instructors [through the AIM portal](#) as early in the semester as possible so that accommodations can be made in a timely manner. It is the student’s responsibility to follow this process each semester.

You can access further information at the [Student Accessibility website](#). Other information is at the university’s [Accessibility Portal](#).

The Clemson University Title IX Statement Regarding Non-Discrimination

The Clemson University Title IX statement: Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran’s status, genetic information or protected activity in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. This [Title IX policy](#) is located on the Campus Life website. Ms. Alesia Smith is the Clemson University Title IX

Clemson University aspires to create a diverse community that welcomes people of different races, cultures, ages, genders, sexual orientation, religions, socioeconomic levels, political perspectives, abilities, opinions, values and experiences.

Emergency Preparation

Emergency procedures have been posted in all buildings and on all elevators. Students should be reminded to review these procedures for their own safety. All students and employees should be familiar with guidelines from the Clemson University Police Department. [Visit here for information about safety.](#)

Clemson University is committed to providing a safe campus environment for students, faculty, staff, and visitors. As members of the community, we encourage you to take the following actions to be better prepared in case of an emergency:

1. Ensure you are signed up for [emergency alerts](#)
2. Download the [Rave Guardian app](#) to your phone (<https://www.clemson.edu/cusafety/cupd/rave-guardian/>)
3. Learn what you can do to [prepare yourself](#) in the event of an active threat (<http://www.clemson.edu/cusafety/EmergencyManagement/>)

**FOR more on ACADEMIC POLICIES and STUDENT RESOURCES on Campus
see the University Policy and Student Support Syllabus Part 2.**