

**Florida Atlantic University
School of Architecture**

ARC3321 ARCHITECTURAL DESIGN 6

Number of credits: 4

Spring 2019

Studio location: HEC 7th floor.

Monday and Wednesday 12:30 pm to 4.20 pm

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Office hours: Monday and Wednesday 11:30-12:30 or by scheduled appointment; HEC 811

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Course Description

This course focuses on the integration of structural expression and principles of architectural ordering and composition of space. Students develop a critical approach to program and physical, social, and historical context through research in order to develop a meaningful rationale for their design process.

Eight hours of studio per week. Outside of class time, it is expected that, on average, each student will work a minimum of 8 hours per week on readings, homework assignments, research papers, interactive tutorials, study groups or projects.

Course Overview

ARC3321 is the second of two foundational upper division studios in the FAU School of Architecture. Continuing from D5, project design and discussions are built around four essential categories of architectural concern: environment/context, function/use, materiality/structure, experience/sensation. Each of these categories will be central to individual critique and group conversations throughout the semester. In addition, students will be asked to consider these within the context of professional cultural lens of the design competition and through the temporal and cultural framework of a museum. The semester is organized around two projects. Each project is designed to foreground two or more of the four imperatives. At the same time, each project requires exploration and resolution of all four criteria and interrelationships among them.

Project 1 Here+Now: A House for the 21st Century, International Student Design Competition

For this project you will each develop a design for a residence that engages with enduring and new questions of domesticity within the context of contemporary technological and environmental challenges, including sea rise, intergenerational living, and the blurring of home-work boundaries.

Project 2 Then+Now: A Museum of US Cotton Industry, Savannah, Georgia

This project asks students to develop a space that tells the story of Savannah and the South's cotton industry, including its relationship to global exchange, the enslavement of African-Americans, and the everyday mechanisms and practices of the cotton storage, accounting, trade, and shipping. In addition, the project will challenge students to develop a spatial and structural strategy for the adaptive reuse of a historic masonry building on a steeply sloped site on the banks of the Savannah River.

Complete information for each project available in handouts.

Course Objectives/learning outcomes

- Continue to develop graphic symbols and conventions to communicate design intentions and develop a strong understanding of how graphic representation translates into space, at the level of form and experience.
- Learn to analyze and represent conditions of site, building, and context.
- Understand and use basic principles of design that reflect meaningful concepts related to use, materials, structure, experience, and surrounding physical and social context.
- Develop a precise and varied spoken and written vocabulary to describe design intentions.
- Develop creative and environmentally responsible responses to regional climatic conditions.

- Develop the ability to work at varying scales, from architectural details to the larger landscape.
- Develop understanding of and compliance with the laws and codes governing architectural design, including concepts of accessibility for a range of users.
- Continue developing a critical approach to the design of buildings and begin to create a method of providing feedback to peers.

Pre- or Co-requisites:

Prerequisites: ARC 3091 and ARC 3320, or permission of department.

Student Performance Criteria:

- A.4 Architectural Design Skills (primary)
- A.5 Ordering Systems (primary)
- B.2 Site Design (primary)
- B.5 Structural Systems (primary)
- FA.1 Subtropical Sustainability (primary)
- A.2 Design Thinking Skills (secondary)
- B.1 Pre-Design (secondary)
- C.3 Integrative Design (secondary)
- D.5 Professional Conduct (secondary)

Definitions of the above criteria can be found on the NAAB website. NAAB.org/Conditions

Recommended Text and Readings:

Architectural Graphic Standards, Ramsey/Sleeper, Wiley

(Student version available as eBook through FAU Library website log-in)

Graphic Thinking for Architects and Designers (3rd edition), Paul Laseau, Wiley

The Architect's Studio Companion, Edward Allen and Joseph Iano, Wiley

Building Construction Illustrated (3rd edition), Francis Ching, Wiley

Supplemental Readings

See handouts.

Grading Policy

The grading policy is established in accordance with Florida Atlantic University and the School of Architecture policies as outlined in the Florida Atlantic University Course Catalog. The following criteria supplements those policies and will be used to evaluate your work. You will be graded often and in a timely manner so you are certain of your academic standing in studio. Also note, that failure to follow verbal and written directions will negatively affect your grade.

Course Evaluation Method

Grades for the semester will be distributed on the following percentage basis:

Project 1:	40%
Project 2:	50%
Engagement & Improvement	10%
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	100%

Grading rubrics for Projects 1 and 2 will be explained in the project handouts.

Professionalism and Work Ethic - Students must demonstrate professionalism and a strong work ethic through their actions in class, their preparedness for critiques, pinups or reviews, their engagement during presentations, and the completeness of their work. While we encourage a vibrant and dynamic learning environment in the studio, we also expect students to maintain a clean and organized work space. Students are also expected to respect their colleagues, and observe personal boundaries (spatial,

auditory, sensory, etc.).

Project Filing and Documentation – Students must organize and document all process work during the semester. The majority of two-dimensional design development work should be done using tracing paper/overlay. Therefore, it is important that each student develop an appropriate filing system to organize their drawings of process and all versions of design, which must be available for review at any point during the semester. At the end of the semester, students must compile all process and final presentation material into a digital format to be emailed to your instructor.

Semester Grading Rubric

In specific terms, each percentage point is equal to one (1) point, with a total cumulative value of one hundred (100) possible points for the course.

- | | | |
|-----------------|-----------------|-------------------|
| ○ A: 94-100 pts | ○ B-: 80-83 pts | ○ D+:67-69pts |
| ○ A-: 90-93 pts | ○ C+: 77-79 pts | ○ D:64-66 pts |
| ○ B+:87-89 pts | ○ C: 74-76 pts | ○ D-: 60-63 pts |
| ○ B:84-86 pts | ○ C-: 70-73 pts | ○ F: Below 60pts. |

Letter grades above indicate that students have achieved the following:

A to A- Excellent Work

Work of exceptional quality typically achieved through purposive self-direction, rigor, and expansive design investigations of the studio objectives. This work demonstrates a very high level of intellectual and material craftsmanship with results that are beyond the expectations established for a student at this level.

B+ to B- Good Work

Work of a high quality that exhibits insight, development, and academic performance above an average level. Work at this level exhibits a certain level of self-direction and discovery beyond a mere understanding of course content and objectives. Work is independently directed and demonstrates a high level of intellectual and physical craftsmanship.

C+ to C Average Work

Average work satisfies the objectives of the course, demonstrating an understanding of course content, and competence in concept production, design development, and craftsmanship in final work products. This work is typical and exhibits modest or normative intellectual and design ambition.

C- to D- Marginal Work

Marginal work is failing work, characterized by indifference and a marginal understanding of course content. This work is incomplete, manifesting little initiative, and lacking design development and integration of key concepts in the final work products. Students who earn a grade lower than a C typically do not read assigned literature, investigate relevant precedents, attend class, or maintain consistent progress in work production.

F Failing Work

Failing work is unacceptable and without substantive consideration of course content and/or satisfactory design development in work products. This work typically lacks synthesis of content, detail, specific course objectives, and/or is substantially incomplete. The work betrays incompetence and the inability to perform in a satisfactory manner at this level of study.

I Incomplete Work

Work that is Incomplete for a minor part of the course requirements due to an illness or other excused absence. An Incomplete is not intended to be an extension of the semester due to marginal performance. A passing grade is expected once the work is completed. An "I" is merely provisional and rolls over to an F in the following semester.

At a minimum, in order to pass this course, students must be able to demonstrate that they meet the Student Performance Criteria listed above. For definition of the SPC's refer to the website NAAB.org.

Course Methods and Processes

All students are required to work in studio. Drawings can be produced by hand or digital tools, depending on the assignment. While it is important at this point to learn ACAD and other software, students will also be required to develop hand sketches and diagrams. All work shown in class and submitted as homework must reflect the student's own thoughts and efforts. All desks and tools must be set up and ready for use by Wednesday, January 9, 2019. There will be a 2-point penalty for non-compliance.

Required tools include at a minimum:

- 36" parallel rule
- 12" roll tracing paper (white)
- Architectural Scale
- Engineering Scale
- Triangles 30/60 & 45/45 (8" or larger)
- Adjustable triangles
- Lead Holders
- Lead Pointers
- Leads
- Compass
- Fine and medium point black markers
- Cutting tools (X-Acto)
- Metal Ruler with cork back
- Chip board & model making materials

All students are required to have 12" roll of tracing paper available at all times. Each student must establish an appropriate strategy for filing and documenting work for future reference. A final booklet documenting the design process and final presentations for each project will be due at the end of the semester.

Attendance

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance.

Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Students shall conduct themselves in a diligent and scholarly manner. Students are expected to arrive to class on time, prepared, and having completed all assignments. During individual and group desk critiques, all students are expected to work productively at their individual or group drafting tables. Students are also required to remain in class for the duration of class, unless excused by the instructor. Anyone leaving early without permission will be marked with an unexcused absence for that day.

Absences: Each unexcused absence shall result in a penalty of 4 points from your final cumulative point total. Students absent more than six classes without serious reasons (medical or otherwise) given in writing in advance of the class will automatically fail the class. Students absent from a required presentation, assignment, or examination will receive, without exception, an F for that presentation, assignment, or examination. Attendance will be taken at the beginning of each class. Each student may have one "free pass", an unexcused absence that doesn't incur a penalty.

Tardiness: Students arriving after attendance has been taken shall be considered late, and will receive a 2-point penalty from their final cumulative point total.

Classroom etiquette and participation: In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers or radios are to be disabled in class sessions. Students using electronic communication devices during class or otherwise not participating in class (sleeping, eating) will be considered ABSENT from class at the discretion of the instructor, and receive a 4-point penalty from their final cumulative point total.

Absence does not absolve the student from homework, assignments, or work progress due on the day of absence and the work due the following class. It is the student's sole responsibility to contact someone from the class to get information on the material covered and assignments given.

Policy on Late/Make-up Work

Late work will not be accepted. Students must inform the instructor, in writing, **prior** to absence. Medical reasons for absence require a letter from a physician or clinic. Other serious reasons for absences, such as participation in University-approved activities, must be given in writing in advance of the class and accepted by the instructor. It is the student's responsibility to stay abreast of all course activities. If you miss a class, it is your responsibility to learn and complete missed work/material. Missed projects or class activities due to an excused absence have to be made up within a time frame discussed with the instructor. Missed projects or class activities due to an **unexcused** absence will result in a zero for that activity. Students cannot be penalized for participation in University-approved activities such as athletic events, theatrical or musical performances, etc. Decisions about penalties for absences and late work are the discretion of the instructor.

Classroom Etiquette Policy

Students are expected to conduct themselves in a collegial and professional manner. This includes respecting the opinions of others, being attentive during lectures, and reviews, and participating fully in all discussions. During individual critiques students are expected to work productively at their drafting tables. Electronic communications with persons outside of the classroom or studio (telephone, texting, social media, etc.) is prohibited. In case of extenuating circumstances, students must make prior arrangements with faculty. Disruptive use of electronic communication may result in instructor asking student to leave class, which shall result in an absence for that class.

It is the students' responsibility to maintain a professional, clean and safe working environment in the studios at all times. At the end of the semester, the studio should be returned to state in which it was received at the beginning of the semester. The studio clean-up is the collective responsibility of the studio, and the individual responsibility of the student. All garbage, debris, drawing material, model making material and personal effects must be removed or placed in trash bins, and all floors and desk surfaces must be clean, with your assigned stool placed on top of your desk. Any student leaving material in the studio after the April 25, 2019 clean out date will have their final grade for the class withheld, until the studio has been cleaned.

Special Requirements

Students are required to provide all their own instruments and resource materials in the studio. Except in cases of medical reason or other hardship, students are required to attend the Savannah field trip.

Students who have not already passed the workshop safety course, must do as soon as possible after January 14.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to

<http://www.fau.edu/counseling/>

Disability Statement

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodation due to a disability to properly execute coursework must register with Student Accessibility Services (SAS)—in Boca Raton, SU 133 (561-297-3880); in Davie, LA 203 (954-236-1222); or in Jupiter, SR 110 (561-799-8585)—and follow all SAS procedures. For more information: <http://www.fau.edu/sas/>

Code of Academic Integrity Policy

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the University mission to provide a high-quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the University community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see the Code of Academic Integrity in the University Regulations at <http://www.fau.edu/regulations/chapter4/4.001 Code of Academic Integrity.pdf>.

Plagiarism is unacceptable in the University community. Academic work that is submitted by students is assumed to be the result of their own thought, research, or self-expression. When students borrow ideas, wording, or organization from another source, they are expected to acknowledge that fact in an appropriate manner. Plagiarism is the deliberate use and appropriation of another's work without identifying the source and trying to pass-off such work as one's own. Any student who fails to give full credit for ideas or materials taken from another has plagiarized. This includes all discussion board posts, journal entries, wikis, and other written and oral presentation assignments. If in doubt, cite your source! Cited work of others should be kept to a minimum in favor of your own analysis.

Outside Employment

While the School of Architecture is sensitive to the financial and professional needs of our students, outside employment is not considered an extenuating circumstance in cases of poor performance, excessive absences or failure to submit assigned work on schedule. Students who fail to adequately fulfill course and curriculum requirements while maintaining outside employment may be required to carry reduced course loads. A longer period in residence may result from this reduction in course load.

Student Work

The School of Architecture reserves the right to retain any and all student work for the purpose of record, exhibition, and instruction. All students are encouraged to reproduce all work for their own records prior to submission of originals to the instructor. In the event of publication, the author or the work will be recognized and receive full attribution.

General

Information concerning academic regulations, student rights and responsibilities may be found in the current Florida Atlantic University Catalog and Student Handbook. Students are also encouraged to review the School of Architecture Student Handbook, available online at the school's website.

Schedule

WEEK 1

Monday, January 7, 2019	Class Introduction/Site Visit (all-class)
Wednesday, January 9, 2019	Assign Household Scenario Exercise (all-class)

WEEK 2

Monday, January 14, 2019	Review Household Scenario Exercise (all-class)
Wednesday, January 16, 2019	Lecture: <i>Architecture and the Single-Family House</i>

WEEK 3

Monday, January 21, 2019	NO CLASS, MLK HOLIDAY
Wednesday, January 23, 2019	Lecture: <i>Concrete: Technique and Expression</i>
WEEK 4	
Monday, January 28, 2019	In-class: Review structural concepts, pin-up or desk crit;
Wednesday, January 30, 2019	In-class: Review structural development, pin-up or desk crit
WEEK 5	
Monday, February 4, 2019	In-class: Review design development, pin-up or desk crit
Wednesday, February 6, 2019	In-class: Review final model
WEEK 6	
Monday, February 11, 2019	In-class: Review progress final presentation boards and model, pin-up
Wednesday, February 13, 2019	Final Review Project 1; Assign Project 2
Savannah field trip dates to be determined	
WEEK 7	
Monday, February 18, 2019	Introduce Project 2, review site analysis
Wednesday, February 20, 2019	
WEEK 8	
Monday, February 25, 2019	Lecture: <i>The Museum, Then and Now</i>
Wednesday, February 27, 2019	Case Study Assignment
WEEK 9	
Monday, March 4, 2019	SPRING BREAK
Wednesday, March 6, 2019	SPRING BREAK
WEEK 10	
Monday, March 11, 2019	Concept charrette
Wednesday, March 13, 2019	Lecture: <i>Frame Structures</i>
WEEK 11	
Monday, March 18, 2019	Plans & Sections
Wednesday, March 20, 2019	Structural concept drawings
WEEK 12	
Monday, March 25, 2019	Structural & Program Integration
Wednesday, March 27, 2019	Mid-Review: Design Development Continued
WEEK 13	
Monday, April 1, 2019	Design Development Continued
Wednesday, April 3, 2019	Design Development Continued
WEEK 14	
Monday, April 8, 2019	Design Development Continued
Wednesday, April 10, 2019	Design Development Continued
WEEK 15	
Monday, April 15, 2019	Progress Final Presentation
Wednesday, April 17, 2019	FINAL REVIEW
Monday, April 22, 2019	D6 students must attend D10 reviews

See project handouts. This Syllabus is subject to revision at the discretion of the instructor.