

SYLLABUS

Architectural Design 7

ARC 4326-001, CRN 10118

Credits: 4

Semester: Fall, 2019

Time: Tuesday, Thursday: 12:30pm – 4:20pm

Location: Higher Education Building, 7th Floor Studio
Fort Lauderdale Campus

Instructor

John Sandell, Associate Professor

Office: Rm. 711, HEC Building

Office: TTH 11:00-12:00 or by appointment.

Email: jsandel1@fau.edu

Tel: 954-762-5066

COURSE DESCRIPTION

This course focuses on systems of structure, circulation, enclosure, and programmatic organization within a specific context. Each system acts as a generative tool responsive to the context and the sequencing of design processes. Such processes, manifested through the appropriate means of architectural representation, act as a mode for identifying and understanding possible correlations and oppositions among the above systems and context. Coursework introduces advanced design research, building analysis and study of the social and physical attributes of an architectural project.

Eight hours of studio per week.

COURSE OVERVIEW

This design studio concerns the development of a theoretical framework through which a comprehensive architectural response may be considered and developed simultaneously at multiple scales.

PROJECT SYNOPSIS

The Wynwood District of Miami is defined by its history. This history includes, among other factors, its physical transformations over the past 100 years, the changing social fabric, struggles and political movements influencing those changes, and the rich cultural environment manifested through local foods, fashion, performance and visual arts. This semester's project examines the current socio-cultural state of the Wynwood District. The project in which your work will be made evident is a live-work community of artists. The goal of the project is to amalgamate this new small community into the larger social context of Wynwood and Miami. During the process, each student will formulate (and reformulate iteratively) the question concerning this small community's roll, including the relationship of live-work within the community and to the larger context. Through an understanding of context as an encapsulation of environmental, historical, social and cultural characteristics, future trends will be hypothesized. This mode of hypothesis as expressed through the projection of programs, systems and impacts on the built environment will challenge each student to identify unforeseen trends and consequences of design actions.

COURSE OBJECTIVES

The course objectives include achieving the following:

- **THEORETICAL FRAMEWORK:** Students will formulate their design philosophy informed by studio agenda and understanding of intellectual framework.
- **CRITICAL THINKING:** apply the theoretical framework and utilize precedent analysis into new design propositions.
- **ANALOG, VIRTUAL, AND MIXED REALITY REPRESENTATIONS:** Students will learn and develop skills to incorporate different media in the design process.
- **PARAMETRICISM AND ENVIRONMENTAL PERFORMANCE:** students will learn concepts and applications of parametric design and will be exposed to environmental performance analysis lectures and experiments and apply their acquired knowledge to evaluate their designs.

COURSEWORK

The minimum requirements for completing the course include:

- An approved sketchbook for class notes and sketches to be submitted upon completion of the course.
- Demonstrated completion of all course assignments including individual assignments, reading and other assignments.
- Demonstration of self-directed inquiry, research, analyses, progressive design development work, sketches, models, and drawings representing process and completed architectural response.
- Acquisition of the necessary materials and tools to complete all coursework.
- Responsible care and maintenance of assigned studio facilities and furnishings in accordance with the School of Architecture studio protocol.
- Demonstration that plan conventions, (plan/elevation/section), are understood.
- Demonstration of ADA and life safety requirements.
- Understanding of materials, structural and environmental systems as source systems and design modifiers.
- Understanding, representing and responding to context: man-made urban and natural environments.

THE DESIGN STUDIO

The design studio is a place of scholarly preparation, inquiry, and reasoned dialogue. The representation of context and architectural response in model and drawing media are emphasized as the means toward an expanding inquiry and dialogue. Regular assignments will develop the scope, nature, and depth of the design process with attendant reviews by faculty and student peers. The full participation of each student is a minimum requirement for passing this course.

SUBMITTAL FORMAT

Final presentation drawings shall conform to the standard format established by the School of Architecture for record and publication purposes. All individual student presentations shall include the following as a minimum: Complete representations of the design in model(s), site plans showing the project and its context, plans, elevations, sections, as needed to explain the solution. Plan drawings must include a north arrow and a graphic scale. All models must include a human figure for scale. All work submitted should bear the name of the student, the date, course and sequence number.

NAAB COURSE OBJECTIVES & STUDENT PERFORMANCE CRITERIA

The following NAAB Student performance criteria as listed in the NAAB Conditions for Accreditation will be addressed in this course.

Primary:

A.2 Design Thinking Skills

A.6 Use of Precedents

C.2 Integrated Evaluations and Decision Making Design Process

Secondary:

A.4 Architectural Design Skills

B-1 Pre-Design

B-2 Site Design

B.4 Technical Documentation

C.3 Integrative Design

D-5 Professional Conduct

FA.1 Subtropical Sustainability

Please refer to the most recent NAAB conditions for accreditation at www.NAAB.org for descriptions of all NAAB criteria. This list may also be accessed in the School of Architecture Student Handbook, available on the school's website.

PREREQUISITES

ARC4326 completed with a minimum grade of "C", ARC3374 completed and passed.

REQUIRED TEXTS

Architectural Graphic Standards, Student Edition, 9th Edition, Wiley. The Architect's Studio Companion, 3rd Edition, Wiley

SUPPLEMENTAL READING

Handouts will be submitted during the semester.

SKETCHBOOK REQUIREMENT

You are each required to have a sketchbook for your notes, summaries and projects. These materials will facilitate you in the compilation of your final report.

SPECIAL REQUIREMENTS

Students are required to have Rhino software with Grasshopper installed (Rhino 6 has Grasshopper already). Options to download Rhino for free (demo version for 3 months) or purchase it for educational purposes can be found using the link: <https://novedge.com/mcneel/rhino-3d-student/products/2572/download>

PARTICIPATION

Students are expected to bring all pertinent research notes and assignments to class for discussion and review. Students are responsible for completing all assigned readings prior to class and are expected to participate in related discussions. Participation will count towards your final grade.

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

The final presentation [or final project, or final exam] represents the culmination of all work completed during the term. The basic grade shall depend directly upon demonstration of the minimum standard of learning expected from this course. After the minimum criteria have been met, the final grade will be determined by evaluating design and communication skills and the quality of your research and exploration from commencement through completion of the course. In other words, process, performance and completion of all works is paramount towards earning a passing grade. All work must be corrected and improved prior to all scheduled presentations. Grade determination will include, but is not limited to, the following criteria:

Fulfillment of course requirements including the Student Performance Criteria, 100%

A more detailed breakdown is listed under the "COURSEWORK" and "COURSE SCHEDULE AND TOPICAL OUTLINE" headings.

Grade reductions for failure to abide by the terms of this syllabus shall be at the discretion of the instructor.

Letter grades represent the following:

A to A- Exceptional work, effort, and conduct exceeding requirements.

B+ to B- Above average work, effort, and conduct meeting all requirements.

C+ to C Average work, meeting all of the requirements and exhibiting a consistent effort in research and design process, communicated clearly.

C- to D- Marginal work, meeting the minimum requirements while exhibiting inconsistency in design research, process, and lacking in clarity.

F Failing work, meeting less than the minimum requirements.

I A grade of incomplete is only granted when the student has submitted evidence of a serious matter pertaining to the health of the student or a member of the student's immediate family and no more than one assignment is needed to complete the course.

A percentage value has been assigned to each project stage. These will be listed next to the project deadlines in the supplement to this syllabus.

MAKE-UP EXAMS & LATE WORK

Any assignment turned in late will be graded lower by one full letter grade. Note that the School of Architecture requires a minimum grade of 'C' or better in this course for graduation. Anybody leaving work, supplies, scraps of any kind, junk in the studio after the week of reviews will be graded lower by one full letter grade. The studio will be cleaned the last day of class or immediately following reviews.

GRADING SCALE in %

100- 93 A

92 – 90 A-
89 – 88 B+
87 – 83 B
82 – 80 B-
79 – 78 C+
77 – 73 C
72 – 70 C-
69 – 68 D+
67 – 63 D
62 – 60 D-
59 – 0 F

Project grading: Percent of final grade:

Project 1:	5%
Project 2, Assignment 1	10%
Assignment 2: Precedent study	5%
Assignment 3: Community	5%
Midterm1	25%
Assignment 4: Systems 1	5%
Assignment 5: Systems 2	5%
Preliminary:	10%
Final Review:	30%
Total:	100%

All exercises must be handed in at the due dates. Exercises received after the required date of submission will be graded "fail" with no resubmission.

In order to be considered for a passing grade in a course a student must complete and submit all exercises.

REQUIRED MEDIA AND FORMATTING

All students' work must be submitted in two formats, digital and printed, (8 1/2 x 11). All work submitted should bear the name of the individual student and/or team members that contributed to the graphics and research. The analysis and synthesis of the materials should be made by each individual student. In addition, each student will submit a final document within two weeks of the final presentation that will include a critical analysis and synthesis of the content of the project.

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 and/or the sketchbook. 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 booklet that will be submitted for a final evaluation. All students are required to submit a CD documenting studio work throughout the semester.

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.

ATTENDANCE POLICY

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 1% penalty from your final cumulative grade. 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 (and sometimes end) of each class.

Tardiness: Students arriving after attendance has been taken shall be considered late, which will also result in a grade penalty.

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 MAKE-UPS/LATE/INCOMPLETES

Make up and late work will not be accepted, except by prior agreement with instructor, based on legitimate reasons for access. Incompletes will only be offered in cases of medical or family emergency.

CLASSROOM ETIQUITE 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 and group 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 May 2, 2019 clean out date will have their final grade for the class withheld, until the studio has been cleaned.

Special requirements (if applicable) such as mandatory field trips or purchase of course related materials. Students are required to provide all their own instruments and resource materials in the studio. Except in cases of medical reason, students are required to attend field trips.

SPECIAL NEEDS

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 provide 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 accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all

campuses. For more information, please visit the SAS website at 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 https://www.fau.edu/ctl/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, drawings 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.

COURSE SCHEDULE

- Week 1: Course Introduction and Project 1: Parametric Workshop (2 days-workshop by Yousif).
Project 1 Assigned.
- Week2: Project 1 Due. Project 2, Assignment 1: Site Analysis in the Urban Context:
History of Place, (group assignment).(Lecture: Camargo)
- Week 3: Urban Context: History of Place.
- Week 4: Assignment 2: Precedent study. Work-Live and Public Space
- Week 5: Assignment 3: Programming as a System. (Lecture on diagramming architectural
aesthetics, (Lecture: Yousif)
- Week 6: Assignment 4: The Artist Community. (Lecture: Sandell)
- Week7:: Assignment 5: Architectural Systems as a Means of Projection. Sept. 23-27 Midterm studio
reviews.
- Week 8: Assignment 6: Systems Analysis : Systems Projection.
- Week 9: Continuation of Architectural Systems as a Means of Projection.
- Week 10: Architectural Systems and building environmental performance (Lecture: Yousif)
- Week 11: Collapsing the Language of Systems into the Architectural Project.
- Week 12: Project Revisions: Comprehensive.
- Week 13: Project Revisions: Comprehensive , Wall Section; Wall Section Workshop.
- Week 14: Project Revisions: Comprehensive. Preliminary review.
- Week 15: Project Revisions: Final Review Thursday, November 26, 2019 30% of final grade.

Reference:

Last day of classes, November 27

Read days: December 1 - 3

Final exams: December 4 - 10

Schedule is subject to change.