

Course Syllabus: ARC 1301 Architectural Design I

Credit Hours: 4
Contact Hours breakdown: Lecture 32; Lab 64
Pre-requisites: none
Co-requisites: ARC 1126C – Architectural Drawing

Course Description: This course covers basic two and three-dimensional design fundamentals, architectonic principles and architectural design skills. Techniques of model making are learned through explorations in defining and understanding architectural space.

Narrative: An architectural design class is hands-on learning coupled with analysis and criticism. While some individual desk criticism occurs; much of the critiques will be in a group: the student presents their work in front of a jury (the class, instructor and sometimes others) and receives criticism on the work. It is expected that each student is present and participates as a great amount of your learning comes from analyzing other student's work. Additionally, learning also comes from self analysis and experimentation through the use of drawing and model making. Design studio classes demand an enormous quantity of time and effort outside of class: at least 3-4 times the amount of time spent in class. It may be necessary for some students to devote even more time. Time management is essential for all students.

Objectives: By the end of this course, the student should be able to:

1. Understand and apply basic 2-dimensional and 3-dimensional design fundamentals.
2. Design a series of spaces that demonstrate a complete understanding of organizational, architectonic, formal, compositional, functional and spatial principles explored during the course.
3. Prepare well-drafted and labeled architectural floor plans, sections, elevations and axonometrics (obliques) in both pencil and ink.
4. Construct well-crafted architectonic models.

Required Text: Architectural Graphics. Frank Ching, New York: John Wiley and Sons.
Designing with Models. Criss B. Mills, Wiley.
Architecture: Form, Space and Order. Frank Ching, New York: John Wiley and Sons.

Reference Text: Drawing, The Creative Process. Frank Ching, New York: John Wiley and Sons.
Design Drawing. Frank Ching, New York: John Wiley and Sons.
Precedents in Architecture. Roger Clark and Michael Pause, New York: Van Nostrand Reinhold.

Instructor: Robert E. Burghardt, RA, AIA
Master of Architecture, University of South Florida, 1998.

To contact instructor (preferred method is via email or cell):
Office: DMJM Harris/ AECOM
305-648-9974 Direct line, 305-205-7878 Cell (do not text message)
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or leave message via Broward College 954-201-7396

Consultations: Immediately after class in classroom or by appointment.

Attendance: Students must be punctual and attend all classes- if you are late, inform instructor after class to be marked present. If the student misses two (2) or more consecutive classes or four (4) or more non-consecutive classes without a strong, documented medical reason, then they are subject to receiving an "F" for the course. To stop coming to class does not automatically give a withdrawal: it is the responsibility of the student to

fill out the proper paperwork with the College if they are withdrawing from the class and must be prior to or on the withdrawal due date. If student needs to observe a particular religious holiday, student must inform instructor the class prior to holiday; otherwise, it will be counted as an absent.

Class time is M/W from 6:30 pm – 9:20 pm. Students are expected to come to each class with the required equipment and materials pertinent to the current project to work and to be prepared for critiques. Leaving prior to the end of class is not acceptable unless allowed by the instructor.

Grading:

Fulfilling the requirements are only a minimum and does not guarantee a passing grade. Project due dates will be enforced and progress must be shown each class period. Extracurricular activities, family and/or employment are not accepted excuses for not being prepared each class and not fulfilling all of the requirements for presentations. The method of grading is based on the following percentages:

Project Assignments	60%
Final Project	30%
Class Participation:	10%

An evaluation sheet is used for the projects with category ratings of excellent, above average, average, poor, very poor and missing. These evaluation sheets are used to determine the grade of the project assignments and final project. Class participation is merited by class time management, attendance, attitude, willingness to learn and to accept criticism, degree of improvement, ability to work with others, technical expertise and design skills. At the end of the semester, a letter grade is assigned based on:

A	90-100	Excellent	Outstanding work and learning
B	80-89	Good	Better than average work and learning
C	70-79	Average	Class standard work and learning
D	60-69	Passing	Below average and minimum amount of work and learning
F	below 60	Failure	Less than minimum amount of learning, work and effort
X	audit		

The instructor does not withdrawal a student and cannot give a grade of "W". Incompletes (a grade of "I") are not given except for extenuating circumstances and if the student is in good standing and has demonstrated the objectives of the course. It is the responsibility of the student to be informed about their standing in the class during the duration of the semester.

Student Regulations:

It is the student's responsibility to understand and to strictly adhere to all academic regulations and students rights and responsibilities as stated in the official Broward (Community) College Catalog. If a student does not adhere to academic honesty, then they will receive an "F" for the project and are subject to receiving an "F" for the course. Students are required to act as not to disrupt the academic performance and education of another and are subject to dismissal from the class and receiving an "F" for the course.

Computer Use:

Generally, computer drawings and renderings are not allowed in this class unless it is over and above the requirements of the hand drawings. It is up to the discretion of the instructor to accept a student to present via computer drawings.

Note:

All assignments and information pertinent to the course will be handed out in class. If you miss class or loose the material, it is the responsibility of the student to obtain the material from another student. For your convenience only, I always make an effort to post the material on my website: www.geministudios-miami.com. (Go to: Architecture/College Class Information).

Emergency Information:

For information concerning class cancellation contact instructor at cell phone number listed and for school closure, contact the BC Hotline at 954-201-4900 and via the BC website (www.broward.edu). Should any emergencies arise in classroom or building, contact building security.

Supplemental Materials and Equipment:

Students must bring the necessary materials and tools and be prepared to work on their projects during studio hours. Not all of the supplies are necessary at the beginning and may be purchased throughout the semester. Additionally, not all of the materials/ supplies will be used in the course, but will be used in following architectural design courses.

For drawing:

100% cotton or rag vellum paper (do not get natural vellum)
 12" wide roll of tracing paper
 Mechanical Pencils: .7 & .9 mm. Not .5 mm.
 Drawing leads: F, HB, H, 4H
 Drafting dots or tape (not masking tape)
 30/60 Triangle with inking edge (10" or 12")
 45 Triangle with inking edge (8" or 10" one and a 3" one)
 Erasing shield
 Vinyl Eraser
 Circle template
 Drafting Brush
 Cleaning Pad
 Sketchbook or 8 1/2" x 11" 3-ring binder with plain non-lined paper
 Fine and medium markers
 Warm Grey markers 30% & 50%
 24" X 36" Portable Drafting board with parallel rule (Optional)
 Lettering guide
 Borco top (optional)
 Architect's scale
 10" Adjustable triangle with inking edge
 Ellipse template
 Carrying case (Optional)

For ink drawing:

Mylar sheets
 Technical pens (Rapidograph) to use on mylar
 Disposable fine point drawing pens (non-dye ink) for sketching
 Fast drying black India ink for film
 Imbibed eraser (with solvent/erasing fluid)

For model making:

X-acto knives and N° 11 blades
 Larger knives for cutting thick cardboard
 Metal straightedge 15" to 24"
 T-pins and regular pins
 Modeling wood saw, fine toothed
 Miter box for models, small
 Modeling coping saw (optional)
 Self-healing mat
 Dremmel (Optional)
 Glue: white all-purpose (such as Sobo or Elmer's)
 1/32", 1/16", 1/8" Chipboard
 Wood dowels: 1/2" & 1/4" diam.
 Bass wood: 1/4" square, 1/16"X1/4", 1/8"X1/2"
 Mat board
 1/4" Foam Core Board
 Metal dowels (optional)
 Mesh (optional)
 Bristol board (optional)
 Corrugated cardboard (optional)