



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2008-2009
(i.e. 2003-2004)

NEXT REVIEW: 2013-2014
(i.e. 2008-2009)

STATUS: A
(A, I, D)

COURSE TITLE: Architectural Design II

COMMON COURSE NUMBER: ARC 1302

CREDIT HOURS: 4

CONTACT HOUR BREAKDOWN
(per 16 week term)

CLOCK HOURS:
(Voc. Course ONLY)

Lecture: 32 Lab: 64
Clinic: Other:

PREREQUISITE(S): ARC 1301 with a grade of "C" or higher, ARC1126C with a grade of "C" or higher.

COREQUISITE(S):

PRE/COREQUISITE(S): ARC2201

COURSE DESCRIPTION *(750 characters, maximum):*

This course furthers the study of three-dimensional design fundamentals, architectural space and architectural principles through the application of more advanced model making techniques, orthographic drawing and one and two point perspectives. The architectural design process is studied through the analysis and resolution of basic building programs and basic natural and man-made environmental factors.

General Education Requirements - Associate of Arts Degree, meets Area(s):

General Education Requirements - Associate in Science Degree, meets Area(s):

UNIT TITLES

1. Basic Compositional Applications of Architectonic Linear Elements, Shape and Volume (Architectonic Space)
2. Site Analysis
3. Program Analysis
4. Building Design Resolution from Program and Context
5. Architectonic Models



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EVALUATION:

Please provide a brief description (250 characters maximum) that details how students will be evaluated on the course outcomes. Upon successful completion of this course, the students should be able to develop compositions of architectonic and architectural space through the application of architectonic principles and the analysis and resolution of contextual and programmatic factors. The students should also be able to construct more developed architectonic models.

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UNITS

Unit 1 Basic Compositional Applications of Architectonic Linear Elements, Shape and Volume (Architectonic Space) 65% of Class Assignments (10 weeks):

General Outcome:

- 1.0 The student shall: The students should be able to understand the use of architectonic linear elements, shape and volume (architectonic space) and to apply them into abstract spatial compositions.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 1.1 Understand and apply the architectonic principles of transformation, proportions, rhythm, repetition, variety, emphasis, focal point, hierarchy, order, balance and repose to a spatial composition.
- 1.2 Develop an understanding of spatial tension between basic architectural elements.
- 1.3 Study the definition of space through spatial models with frame works developed from basic architectural elements.
- 1.4 Study articulation and composition of space/forms/ implied mass.
- 1.5 Study, understand and apply architectonic principles to the development of spatial definition.

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Unit 2 Site Analysis -5% of Class Assignments (1 week):

General Outcome:

2.0 The student shall: The students should be able to analyze contextual (site) factors.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1 Analyze the existing natural contextual (site) factors.
- 2.2 Analyze the existing man-made contextual (site) factors.
- 2.3 Develop a graphic study of contextual (site) factors.
- 2.4 Design basic architectural reactions to site factors.



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Unit 3 Program Analysis - 5% of Class Assignments (1 week)

General Outcome:

3.0 The student shall: The students should be able to take a building room program and critically analyze it.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.1 Understand and use an adjacency matrix to analyze a building room program.
- 3.2 Understand and apply the vertical relationships in stacking of floors.
- 3.3 Understand, develop and critically analyze horizontal relationships of spaces through bubble diagrams.



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Unit 4 Building Design Resolution from Program and Context -25% of Class Assignments (4 weeks)

General Outcome:

4.0 The student shall: The students should be able to develop a floor plan layout and

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1 Understand and develop an appropriate organization of spaces (linear, centralized, radial, cluster and grid) for the required building room program.
- 4.2 Develop the spatial envelope from the programmatic activities included in the building room program.
- 4.3 Study the relationship between basic contextual factors and the derivation of interior space and exterior form (massing).
- 4.4 Develop and appropriate and harmonious composition of space for the given context (site) and building room program.
- 4.5 Develop a space-dominant architectural design, not mass dominant.
- 4.6 Study, understand, and develop human scale and proportions for the spaces required by the program.
- 4.7 Study articulation of form thru the exterior expression of interior spaces.
- 4.8 Produce a basic architectural building design solution that resolves contextual and programmatic factors.



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Unit 5 Architectural Model Making (within the Design assignments)

General Outcome:

5.0 The student shall: The students should be able build and use schematic architectonic models as design tools.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 5.1 Understand and apply the difference between architectonic process, rough, working or bug models and final design models.
- 5.2 Understand and use architectonic models as design tools.
- 5.3 Understand and produce excellent model-making craftsmanship.