To receive Title IV financial aid funds, all institutions of higher education must comply with the federal definition of a credit hour. The Higher Learning Commission requires institutions to maintain policies and procedures for verifying compliance with this definition.

**Federal Credit Hour Definition:** A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally-established equivalency that reasonably approximates not less than:

1. one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. at least an equivalent amount of work as required in paragraph (1) of this definition for other activities as established by an institution, including laboratory work, internships, practica, studio work, and other academic work leading toward the award of credit hours. 34CFR 600.2 (11/1/2010)

**Credit Hours:** 3 (2+2)

**Face-to-Face or Equivalent Hours per course:**
- Lecture 30
- Lab 30
- Internship ___
- Practicum ___
- Other (please specify type and hours): ___

**Additional Student Work Hours per course:** 90

**Schedule Type:** R

**Grade Mode:** L

Variable topics umbrella course: No X Yes ___
If Yes, number of credit hours allowed ___

Specified repeatable course: No X Yes ___
Prefix and Course Number: ARCH 2003

Prerequisite(s): CET 1215 with grade “C” or better
Corequisite(s):
Prerequisite(s) or Corequisite(s):

Banner Enforced:
Prerequisite(s): CET 1215 with grade “C” or better
Corequisite(s):
Prerequisite(s) or Corequisite(s):

Registration restrictions: Level _____ Class _____ Program/Major ____ Student attribute ____

Catalog Course Description:
The focus of this course will be on the importance of collaboration between related fields in the building industry, development of the architectural and building structural knowledge of students and encouraging creative design integration through class projects.

Specific Variable Topics Course Description (if applicable, umbrella course description included above):

Required Reading and Other Materials will be equivalent to:

Recommended Readings:

Specific, Measurable Student Behavioral Learning Objectives:
Upon completion of this course the student should be able to:

1. Interpret the similarities and differences of architectural and civil engineering terminology in structural drawing.
2. Comprehend the structural construction of buildings and their architectural point of view.
3. Gain a general overview of the collaboration between architects and civil/structural engineers.
4. Develop a basic knowledge about different structure types and their historical evolution.

Detailed Outline of Course Content:

I. Foundations
   A. Foundations
   B. Footings
   C. Waterproofing

II. Wall systems
   A. Brick
   B. Stone
   C. Timber
Prefix and Course Number: ARCH 2003

III. Openings
   A. Doors
   B. Windows

IV. Curtain wall systems
   A. Curtain walls
   B. Glass roofs

V. Slabs
   A. Domes
   B. Arches
   C. Slabs

VI. Roofs
   A. Pitched Roofs
   B. Flat roofs

VII. Stairs

VIII. Drawings
   A. Materials
   B. Drawing rules
   C. Building Information Modeling (BIM)

IX. Relationship/collaboration between
   A. Architects
   B. Civil/Structural Engineers

Evaluation of Student Performance:
1. Architectural drawing
2. Class participation
3. Team work
4. Physical model