METROPOLITAN STATE COLLEGE of DENVER
Office of Academic Affairs

REGULAR COURSE SYLLABUS

School of: Professional Studies
Department: Engineering Technology
CIP Code: 15.0201
Prefix & Course Number: CET 2100       Crosslisted With*: ______
Course Title: Structural Drawing
Check All That Apply: Required for Major: X Required for Minor: _____ Specified Elective: _____
                    Required for Concentration: _____ Elective: _____ Service Course: _____
Credit Hours: 3 (1+4)
Total Contact Hours per semester (assuming 15-16 week semester):
Lecture 15 Lab 60 Internship 0 Practicum 0 Other (please specify type and hours): ______
Schedule Type(s): B Grading Mode(s): L
Variable Topics Courses (list restrictions, including the maximum number of hours that can be earned**):
** NOTE: This information must be included in the course description.
Restrictions (Variable Topics Course): ______
Prerequisite(s): CET 1215 with a grade of "C" or better; or permission of instructor.
Corequisite(s): None
Prerequisite(s) or Corequisite(s): ______
Banner Enforced:
  Prerequisite(s): ______
  Corequisite(s): ______
  Prerequisite(s) or Corequisite(s): ______
Catalog Course Description:
This course introduces drawings of structural members and connections, including engineering layouts and detail drawings.

Required Reading and Other Materials will be equivalent to:

Specific, Measurable Student Behavioral Learning Objectives:

APPROVED: 3 Apr 08
Department Chair OR Program Director

4/18/08
Dean OR Associate Dean

5/19/08
Associate VP, Academic Affairs

*If crosslisted, attach completed Course Crosslisting Agreement Form
Upon completion of this course the student should be able to:
1. Apply conventional methods, dimensioning and symbols used in structural design and detailing.
2. Produce detailed structural drawings of members and connections of wood structures.
3. Produce detailed structural drawings of members and connections of concrete structures.
4. Produce detailed structural drawings of members and connections of steel structures.

**Detailed Outline of Course Content** (Major Topics and Subtopics) or **Outline of Field Experience/Internship (experience, responsibilities and supervision):**

I. Steel Details
   A. Beams and columns, bolts, and welds
   B. Trusses

II. Concrete Details
   A. Footings and foundations with reinforcing steel
   B. Beams and columns
   C. Pre-stressed concrete members

III. Masonry Details
   A. Brick
   B. Block

IV. Wood Details
   A. Wall sections
   B. Trusses

V. Laboratory Assignments
   A. Determination of necessary information for detail drawing preparation
   B. Preparation of detail structural drawings

**Evaluation of Student Performance:**
1. Written examinations
2. Assigned laboratory problems