

METROPOLITAN STATE UNIVERSITY OF DENVER
Office of Academic and Student Affairs

REGULAR COURSE SYLLABUS

College of: Professional Studies

Department: Engineering and Engineering Technology

Prefix & Course Number: CPE 4800 Crosslisted With*: _____

Course Title: Senior Design II

Transcript Course Title (30 characters): Senior Design II

Check All That Apply: Required for Major: Required for Minor: _____ Specified Elective: _____
Required for Concentration: _____ Elective: _____ Service Course: _____

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 to the award of credit hours. 34CFR 600.2 (11/1/2010)

Credit Hours: 2 (0+4) Schedule Type: Q Grade Mode: L

Face-to-Face or Equivalent Hours per course:

Lecture Lab 60 Internship Practicum Other (please specify type and hours):

Additional Student Work Hours per course: 60

Variable topics umbrella course: No Yes _____ If yes, number of credits/repeats allowed _____

Specified repeatable course: No Yes _____ If yes, number of credits/repeats allowed _____

Prerequisite(s): CPE 4700, CPE 4600 and CPE 4390 (with a grade of "C" or better for all prerequisites)

Corequisite(s): _____

Prerequisite(s) or Corequisite(s): _____

APPROVED:

Department Chair OR Program Director Date

Dean OR Associate Dean Date

Associate VP, Academic and Student Affairs Date

*If crosslisted, attach completed Course Crosslisting Agreement Form

Prefix and Course Number:

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Banner Enforced Coding:

Prerequisite(s): CPE 4700, CPE 4600 and CPE 4390 (with a grade of "C" or better for all prerequisites)

Corequisite(s): _____

Prerequisite(s) or Corequisite(s): _____

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

Catalog Course Description:

In this course, the student completes the project started in CPE 4700. The project is built, tested and demonstrated. Written technical reports and oral presentations on the project are required. Part of this course involves the student working with a faculty member who acts as a consultant.

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

Required Reading and Other Materials will be equivalent to:

None.

Specific, *Measurable* Student Behavioral Learning Objectives:

Upon completion of this course the student should be able to:

1. Complete and test a design project
2. Write a technical report on an actual design work
3. Participate in a technical presentation
4. Work as a team

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

- I. Complete design started in CPE 4700
- II. Construct what was designed
- III. Test design
- IV. Make necessary changes in design
- V. Demonstrate project to class
- VI. Participate in a technical presentation to class

Evaluation of Student Performance:

1. Written Technical Report
2. Final Team Presentation
3. Status Reports
4. Achievement of Design Objectives
5. Peer Teamwork Evaluation

**REQUEST FOR NEW OR CONTINUED SENIOR EXPERIENCE DESIGNATION
SENIOR EXPERIENCE**

(To accompany old and new regular syllabus form and Curriculum Change Proposal forms)

Date: August 1, 2016

School: Professional Studies

Department: Engineering and Engineering Technology

Prefix	Course Number	Credit Hours	Contact Hours	CIP Number
CPE	4800	2	60	

Title: Senior Design II

Prerequisites: CPE 4700

Corequisites: _____

Recommended maximum enrollment per section: _____

Current Course Status (check all that apply)

- New course
 Existing Senior Experience Course

Approvals:

Department Curriculum Committee / Date

Department Chair OR Program Director/ Date

School Curriculum Committee / Date

Dean or Associate Dean / Date

Chair, Faculty Senate Curriculum Committee / Date

Associate Vice President, Academic and Student Affairs/Date

Criteria for Senior Experience

The following criteria must be addressed for all courses seeking Senior Experience designation.

Please type on this form; it will expand to accommodate any length of text.

This is a continuation of CPE 4700. The following were addressed in the syllabus for CPE 4700.

The Senior Experience must allow students to:

1. synthesize learning through critical analysis and logical thinking.
2. apply theoretical constructs to practical applications.
3. critique philosophical tenets and current practices.
4. integrate and refine oral and/or written communication skills.
5. verify their expertise.