

REGULAR COURSE SYLLABUS

School of: Professional Studies

Department: Engineering Technology

CIP Code: 15.0201

Prefix & Course Number: CET 4100

Crosslisted With*: _____

Course Title: Senior Project I

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

Required for Concentration: _____ Elective: _____ Service Course: _____

Credit Hours: 1 (0+2)

Total Contact Hours per semester (assuming 15-16 week semester):

Lecture _____ Lab _____ Internship _____ Practicum _____ Other (please specify type and hours): 30

- Individual Research, Planning, Design 20 hours
- Consulting with Faculty Advisor and Industry Contacts 5 hours
- Presentation Preparation with Faculty Advisor 5 hours

Schedule Type(s): Q 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 3120 and COM 2610 with grades of "C" or better; completion of all Level I and Level II

General Studies course requirements with a cumulative GPA of 2.0, and senior standing

Corequisite(s): _____

Prerequisite(s) or Corequisite(s): CET 4120 and CET 4400

Banner Enforced:

Prerequisite(s): CET 3120, COM 2610, MTH 2420 and SPE 1010, all with grades of "C" or better, and senior standing

Corequisite(s): _____

Prerequisite(s) or Corequisite(s): CET 4120 and CET 4400

APPROVED:

Department Chair OR Program Director

Dean OR Associate Dean

Associate VP, Academic Affairs

1/27/2010
Date

2/1/2010
Date

5/4/10
Date

Prefix and Course Number: CET 4100

Catalog Course Description:

This course requires the planning and designing of a team project in consultation with faculty advisors and industry contacts. (Senior Experience)

Required Reading and Other Materials will be equivalent to:

Handouts

Specific, Measurable Student Behavioral Learning Objectives:

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

1. Integrate and incorporate the knowledge gained in the CET curriculum in a culminating project.
2. Identify, formulate, analyze, design, and solve a technology-based project.
3. Form multidisciplinary teams and function as a valuable team-member by understanding professional, ethical, social, and contemporary issues.
4. Plan and deliver a formal presentation of the project technology, projected cost and implementation.

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

- I. Orientation
 - A. Goal of Course
 1. Research Available Technologies and Products
 2. Create Functional Specifications
 3. Develop a Preliminary Design and Divide it into Deliverables
 4. Develop a Plan for Completing the Project
 5. Conduct Financial Analysis of a Proposed Project
 - B. Criteria in Project Selection
 - C. Research Methods and References
- II. Select a Project
 - A. Submit Project for Faculty Approval
 - B. Faculty Approval of Project
- III. Develop a Project Plan
 - A. Goals and Conceptional Block Diagram
 - B. Tasks
 - C. Milestones
 - D. Materials
 - E. Costs
- IV. Preliminary Design Work on Project
- V. Public Presentation of Preliminary Design involving Industry Members
 - A. Project Proposal
 - B. Project Plan

Evaluation of Student Performance:

1. Written Project Proposal in Terms of Technology, Plan, and Costs
2. Formal Presentation