REGULAR COURSE SYLLABUS

School of: Professional Studies
Department: Engineering Technology
Prefix & Course Number: MET 4110 Crosslisted With*: __
Course Title: Senior Project II
Banner course title (17 characters): Senior Project II
Check All That Apply: Required for Major: X 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 the award of credit hours. 34CFR 600.2 (11/1/2010)

Credit Hours: 2 (0+4)

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

Schedule Type: A Grade Mode: ___
Variable topics umbrella course: No X Yes ____ If Yes, number of credit hours allowed ____

Specified repeatable course: No X Yes ____

APPROVED:
Department Chair OR Program Director ___________________________ Date 1-30-14
Dean OR Associate Dean ___________________________ Date 03/13/14
Associate VP, Academic and Student Affairs ___________________________ Date

*If crosslisted, attach completed Course Crosslisting Agreement Form
Prefix and Course Number: MET 4110

Prerequisite(s): MET 4100 with a grade of "C" or better

Corequisite(s): ______

Prerequisite(s) or Corequisite(s): MET 4000

Banner Enforced:
Prerequisite(s): MET 4100 with a grade of "C" or better
Corequisite(s): ______
Prerequisite(s) or Corequisite(s): MET 4000

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

Catalog Course Description:
In this course, the students complete the project they started in MET 4100. 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. (Senior Experience)

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

Required Reading and Other Materials will be equivalent to:
Handouts by faculty on specific projects.

Specific, Measurable Student Behavioral Learning Objectives:
Upon completion of this course the student should be able to:
1. Revise project as needed based on Preliminary Report feedback.
2. Construct and demonstrate the functionality of the project.
3. Conduct and evaluate final cost estimating of the project.
4. Track project progress toward completion and document any unforeseen challenges encountered.
5. Identify impediments to project completion and make necessary modifications to the project and plan.
6. Demonstrate critical thinking and analysis in resolving problems encountered.
7. Create a formal presentation of the project technology, cost, and implementation.

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

II. Develop Written Technical Report
   A. Standards for Report
      1. Course
      2. Industry
   B. Cost Estimating

III. Develop Presentation Plan
   A. Oral Presentation
   B. Project Demonstration
   C. Discussion of Project Failed Goals

IV. Public Presentation

Evaluation of Student Performance:
1. Written Technical Report
2. Oral Presentation
3. Project
REQUEST FOR NEW OR CONTINUED SENIOR EXPERIENCE DESIGNATION

Senior Experience

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

Date: October 4, 2013
School: School of Professional Studies
Department: Engineering Technology

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<tr>
<th>Prefix</th>
<th>Course Number</th>
<th>Credit Hours</th>
<th>Contact Hours</th>
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Title: Senior Project II (0+4)

Prerequisites: MET 4100 with a grades of “C” or better

Corequisites: ______

Recommended maximum enrollment per section: 15

Current Course Status (check all that apply)
✓ New course
☐ Existing Senior Experience Course

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.

The Senior Experience must allow students to:

1. synthesize learning through critical analysis and logical thinking.
   The student was given the goals and criteria of this course in MET 4100. In consultation with the faculty member the student selected and planned a design project. The student completes the design and constructs the project in MET 4110.

2. apply theoretical constructs to practical applications.
   The student completes design work of the project and constructs the project using and demonstrating analysis and synthesis of skills learned as a major. Preliminary work on the design and planning of the project occur in the companion course MET 4100.
3. critique philosophical tenets and current practices.
Students are required to research current industry design methods and reference them in the final written technical report.

4. integrate and refine oral and/or written communication skills.
The student must complete a written technical report on the design and give a formal presentation of the design project.

5. verify their expertise.
The student’s a final project is a written technical report on: design objectives, project design, and, project construction.

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 Affairs/Date