

**COURSE MODIFICATION PROPOSAL**

**College:** [ **Engineering and Computer Science** ] **Department:** [ **Mechanical Engineering** ]

**1. Current Catalog Entry Information:**

Subject Abbreviation and Number: [ **ME 486A** ]  
 Course Title: [ **SENIOR DESIGN IN MECHANICAL ENGINEERING I** ]  
 Units: [ **2** ] units  
 General Education Section [ ] (if applicable)

**2. Date of Proposed Implementation: (Semester/Year):** [ **Fall** ] / [ **2016** ] *Comments*

**3. Course Level:**

Undergraduate Only     Graduate Only     Graduate/Undergraduate

**4. Nature of Request:**

Delete Course (*Note: Record of course will remain in inactive course file*)

Change unit value from [ ] units to [ ] units

Change course type (classification) such as lecture-discussion, laboratory, activity, etc.:

**From:** [ ] units @ [ ] [ ] **to** [ ] units @ [ ] [ ]

**From:** [ ] units @ [ ] [ ] **to** [ ] units @ [ ] [ ]

Change course title to: [ ]

Change course abbreviation “Short title” (Maximum of 17 characters and spaces) to

NEW Short Title: [ . . . . . ]

Change current catalog course description (*Attach current and proposed catalog course description*)

**Notes:** If grading is NC/CR only, please state in course description. If a course numbered less than 500 is available for graduate credit, please state “Available for graduate credit in the catalog description.”

Change subject abbreviation number to: (*Example: HSCI 100 to PT 105*) [ ]

Change requisites (*Prerequisites, Corequisites, Preparatory, Recommended Corequisites*)

**From:** [ **Prerequisites: ME 309, ME 386** ]

**To:** [ **Prerequisites: ME 309, ME 330; corequisite: ME 386** ]

Change Current Basis of Grading

**From:**  Credit/No Credit Only     Letter Grade Only     CR/NC or Letter Grade

**To:**  Credit/No Credit Only     Letter Grade Only     CR/NC or Letter Grade

Add course to GE Section [ ]

Remove course from GE Section [ ]

- Change course from GE section [       ] to GE section [       ]
- Change course to a Community Service Learning course (CS)
- Allow multiple enrollments within a semester.
- Change number of times this course may be taken:  
     May be taken for credit for a total of [1] times, or for a maximum of [1] units
- Multiple enrollments are allowed within a semester
- Crosslist this course with [       ]
- Other: [       ]

**5. Justification and Clarification of Request** *(Attach)*

**6. Estimated Impact on Resources within the Department, for other Departments and the University.***(Attach)*

*(See Resource List)*

**7. Impact on other Departments’ programs** *(Attach)*

**8. Indicate which of the Program’s Measurable Student Learning Outcomes are addressed in this course.** *(Attach)*

*(see Course Alignment Matrix and the Course Objectives Chart)*

**9. If this is a General Education course, indicate how the General Education Measurable Student Learning Outcomes (from the appropriate section) are addressed in this course.** *(Attach)*

**10. Methods of Assessment for Measurable Student Learning Outcomes** *(Attach)*

- A. Assessment tools
- B. Describe the procedure dept/program will use to ensure the faculty teaching the course will be involved in the assessment process (refer to the university’s policy on assessment.)

**11. Record of Consultation:** *(Normally all consultation should be with a department chair or program coordinator.) If more space is needed attach statement and supporting memoranda.*

<b>Date:</b>	<b>Dept/College:</b>	<b>Department Chair/Program Coordinator</b>	<b>Concur (Y/N)</b>
[ 11/12/2014 ]	[ CECM/CECS ]	[ N. Dermendjian ]	[ Y ]
[ 11/12/2014 ]	[ CS/CECS ]	[ R. Covington ]	[ Y ]
[ 11/12/2014 ]	[ ECE/CECS ]	[ A. Amini ]	[ Y ]
[ 11/12/2014 ]	[ ME/CECS ]	[ H. Johari ]	[ Y ]
[ 11/12/2014 ]	[ MSEM/CECS ]	[ K. Chang ]	[ Y ]

]					
[ ]		[ ]		[ ]	[ Y ]

Consultation with the Oviatt Library is **recommended** for course modifications to ensure the availability of appropriate resources to support proposed course curriculum.

**Collection Development Coordinator, Mary Woodley**

**Please send an email to:** collection.development@csun.edu

**Date**

[ ]

## 12. Approvals:

Department Chair/Program Coordinator:

Date: [ 11/12/2014 ]

College (Dean or Associate Dean):

Date: [ 4/15/2015 ]

Educational Policies Committee:

Date: [ ]

Graduate Studies Committee:

Date: [ ]

Provost:

Date: [ ]

## 5. Justification and Clarification of the Request

Senior Design in Mechanical Engineering I (ME 486A) is the first semester of a two-semester capstone design sequence which simulates professional mechanical engineering practice. Emphasis is on the application of engineering fundamentals to a comprehensive design project utilizing computer-aided design and analysis tools. ME 330 Machine Design is key prerequisite for ME 486A, and it is a co-requisite for ME 386. When ME 386 was put in as a prerequisite for ME 486A, it was understood that students will have had ME 330. However, students interpret the current prerequisite for ME 486A otherwise. Therefore, the Mechanical Engineering faculty has voted to make ME 330 an explicit prerequisite for ME 486A, and ME 386/L as a co-requisite. This change to the prerequisites will help with the proper sequencing of the courses for ME majors.

### Current Course Catalog Description

ME 486A. Senior Design in Mechanical Engineering I (2)

Prerequisites: ME 309; ME 386. First semester of a 2-semester capstone design experience simulating professional mechanical engineering practice. Emphasis is on the application of engineering fundamentals to a comprehensive design project utilizing computer-aided design and analysis tools. Addresses effective group participation, and preparation of written and oral preliminary and critical design reviews. Ethical, regulatory, manufacturing and economic issues are considered as required by the project definition. Two 3-hour labs per week.

### Proposed Course Catalog Description

ME 486A. Senior Design in Mechanical Engineering I (2)

Prerequisites: ME 309; ME 330. Corequisite: ME 386. First semester of a 2-semester capstone design experience simulating professional mechanical engineering practice. Emphasis is on the application of engineering fundamentals to a comprehensive design project utilizing computer-aided design and analysis tools. Addresses effective group participation, and preparation of written and oral preliminary and critical design reviews. Ethical, regulatory, manufacturing and economic issues are considered as required by the project definition. Two 3-hour labs per week.

## **6. Estimated Impact on Resources within the Department, for other Departments and the University**

This prerequisite change will only affect the order in which the courses are taken, so there is no resource impact.

## **7. Impact on other Department's programs**

There is none. The affected course are only taken by mechanical engineering majors.