

COURSE MODIFICATION PROPOSAL

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

1. Current Catalog Entry Information:

Subject Abbreviation and Number: [**ME 335/L**]
Course Title: [**Mechanical Measurements and Lab**]
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: Phys 220B**]

To: [**Prerequisites: ME 209; Phys 220B**]

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.*

Date:	Dept/College:	Department Chair/Program Coordinator	Concur (Y/N)
[11/12/2014]	[CECM/ECS]	[N. Dermendjian]	[Y]
[11/12/2014]	[CS/ECS]	[R. Covington]	[Y]
[11/12/2014]	[ECE/ECS]	[A. Amini]	[Y]
[11/12/2014]	[ME/ECS]	[H. Johari]	[Y]
[11/12/2014]	[MSEM/ECS]	[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: [3/25/2015]
Educational Policies Committee:	Date: []
Graduate Studies Committee:	Date: []
Provost:	Date: []

5. Justification and Clarification of the Request

Mechanical Measurements and Lab (ME 335/L) addresses the measurement of parameters such as temperature, pressure, force and motion. Students use various sensors along with a software suite for data collection and storage; however, the software suite requires knowledge of basic programming concepts. In the past, students took ME 209, which covers the basic programming concepts, prior to taking ME 335/L. Recently, ME 335/L instructors have reported that students enroll in this course prior to completing the basic programming course in their lower division. Given that the programming topics covered in ME 209 are necessary for the data acquisition software package, the Mechanical Engineering faculty has voted to make ME 209 a prerequisite for ME 335/L. This change to the prerequisites will help with the proper sequencing of the courses for ME majors.

Current Catalog Description

ME 335/L. Mechanical Measurements and Lab (1/1)

Prerequisite: PHYS 220B. Corequisite: ME 335L. Measurement of temperature, pressure, flow rate, force and motion. Statistical methods for analysis of uncertainty and experiment design. Use of data acquisition software for data collection and storage. Analysis of dynamic response of instruments. Written and oral presentations of experimental results. 1 hour lecture, one 3-hour lab per week.

Proposed Catalog Description

ME 335/L. Mechanical Measurements and Lab (1/1)

Prerequisite: ME 209; PHYS 220B. Corequisite: ME 335L. Measurement of temperature, pressure, flow rate, force and motion. Statistical methods for analysis of uncertainty and experiment design. Use of data acquisition software for data collection and storage. Analysis of dynamic response of instruments. Written and oral presentations of experimental results. 1 hour lecture, one 3-hour lab 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. ME 335/L is only taken by mechanical engineering majors.