COURSE MODIFICATION PROPOSAL

College: [Engineering and Computer Science] **Department: [Manufacturing Systems Engineering & Management]**

1. **Current Catalog Entry Information:**
    Subject Abbreviation and Number: **[MSE 407]**
    Course Title: **[Manufacturing Systems]**
    Units: **[3]** 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: [Prerequisite: Instructor consent.]
       To: [Prerequisite: MSE 248/L or equivalent.]

    [☐] 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)
[2/6/2015]	[CECM/CECS]	[N. Dermendjian]		[Y]
[2/6/2015]	[CS/CECS]	[R. Covington]		[Y]
[2/6/2015]	[ECE/CECS]	[A. Amini]		[Y]
[2/6/2015]	[ME/CECS]	[H. Johari]		[Y]
[2/6/2015]	[MSEM/CECS]	[K. Chang]		[Y]
[ ]	[ ]	[ ]		[N]

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   **Date**

12. Approvals:

Department Chair/Program Coordinator:	Date:	**[2/6/2015]**
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

MSE 248/L Engineering CAD and Graphics and Lab includes the development of concepts and skills in engineering graphics and computer-aided design. Consequently it is a core course which prepares MSEM students for upper level courses in manufacturing systems. Since MSE 407 introduces the practices and methodologies related to manufacturing systems, it is essential to add MSE 248/L or equivalent as a prerequisite.

Existing Course Description

MSE 407. Manufacturing Systems (3)
Prerequisite: Instructor consent. Principles, practices and methodologies of manufacturing systems. Effective design and implementation of manufacturing operations, production, control, quality and automated systems.

Proposed Course Description

MSE 407. Manufacturing Systems (3)
Prerequisite: MSE 248/L or equivalent. Principles, practices and methodologies of manufacturing systems. Effective design and implementation of manufacturing operations, production, control, quality and automated systems.

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

The prerequisite change will only affect the order in which these courses are taken. Therefore there will be no impact on resources within the department, for other departments and the university.

7. Impact on other Departments' programs

The affected courses are only taken by students in the MSEM department. Therefore there will be no impact on other departments' programs.