Minnesota State University, Mankato
Curriculum Proposal

Please type or select the requested information. Print completed forms, add appropriate paper attachments, and route through MSU’s curricular process for recommendations and decisions.

(Check all that apply):
- College: Science, Engineering and Technology
- Department: Automotive and Manufacturing Engineering
- Program: Manufacturing Engineering Technology
- Type of Change: COURSE PROPOSALS
- Proposed: Change in Course—Other
- Title Current: Advanced Computer Aided Design
- Title Proposed:
- 24-Char. Abbrev:

Proposal #: 213
Effective Date of Change: Academic Year 07-08
(For Office Use Only)
Course Designator Number
and Number
Credits
MET 341
4
(if applicable)

Include a course or program description for the Bulletin (30-40 words maximum for courses, 100 for programs):

This course emphasizes the use of CAD in design, analysis, and manufacturing. Topics include component design, mechanics, animation, finite element analysis, CNC machining and rapid prototyping using CAD. Pre: MET 142, Pre or Co-req: MET 322

Rationale or Justification for change:

Old catalog did not print pre- or co-requisites. Online collaboration content was dropped from course.

***For General Education or Cultural Diversity Courses Only***

<table>
<thead>
<tr>
<th>GE Category #</th>
<th>GE Category Name (Maximum of 3 Categories)</th>
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1 For Writing Intensive Courses, attach a description of the kind and quantity of writing.

2 For Upper Division Courses, include a description of the respects in which it is broad and general rather than narrow and specific, and so suitable as GE.

Attach paper copies of the following:

a. Syllabus or course outline.
b. Course’s student learning outcomes associated with each GE competency or CD designation.
c. List of strategies to be used to assess students’ achievement of each GE competency or CD designation.

***For New Courses***

(Check all that apply):
- Instructional Type: Lecture
- Course is an elective.
- Course is required for program
- Pre- or Co-requisites:
- Other courses are being changed or eliminated. (Explain.)

Course will be offered:
- Fall Semester
- Spring Semester
- Summer Session

☐ Course content or title is similar to courses in other departments. (Attach copy of letter of agreement with other program(s) contacted. Indicate the nature of the discussions and/or resolution of differences or potential conflicts.)

Attach paper copies of the following:

a. Syllabus or course outline.
b. Course’s student learning outcomes.
c. A list of resources required to offer and support this course.
d. A description of how teaching this course will affect department staffing.
e. If 400/500 level course, an explanation of added expectations of graduate students.

Revised September 2002
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<tr>
<th><strong>Department</strong></th>
<th>(Category/ies)</th>
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<tr>
<td><strong>College Curriculum Committee</strong></td>
<td>(Category/ies)</td>
<td>Date</td>
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<td><strong>College Dean</strong></td>
<td>(Category/ies)</td>
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<td><strong>General Education Subcommittee</strong></td>
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<td><strong>Undergraduate Curriculum and Academic Policy Committee</strong></td>
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<td><strong>Faculty Association Graduate Committee</strong></td>
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<td><strong>Graduate Dean</strong></td>
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<td><strong>Academic Affairs Council</strong></td>
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<tr>
<td><strong>Senior Vice President and Vice President for Academic Affairs</strong></td>
<td>(Category/ies)</td>
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MET 341 (4) Advanced Computer Aided Design
This course emphasizes the use of CAD in design, analysis, and manufacturing. Topics include component design, mechanics, animation, finite element analysis, on-line collaboration, CNC machining and rapid prototyping using CAD.

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