SOUTH DAKOTA BOARD OF REGENTS
New Course Request

SDSU Engineering / Mechanical Engineering
Laurie Stenberg Nichols 12/8/14

Section 1. Course Title and Description

<table>
<thead>
<tr>
<th>Prefix &amp; No.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 212</td>
<td>Mechanical Engineering Design Technologies</td>
<td>2</td>
</tr>
<tr>
<td>ME 212L</td>
<td>Mechanical Engineering Design Technologies Lab</td>
<td>0</td>
</tr>
</tbody>
</table>

ME 212 Course Description: This course provides an introduction to several mechanical engineering design technologies and computer-aided tools that ME students will use throughout their coursework. Students will be introduced to engineering graphics, including freehand sketching, 2D/3D computer aided drafting (CAD) and graphical presentations of designs (views, sections, dimensioning, and tolerancing). Computer-aided engineering tools for solving complex mathematical systems will also be presented.

ME 212L Course Description: Lab to accompany ME 212.

ME 212 Prerequisite: MATH 115 Precalculus or consent ME 212 Co-requisite: ME 212L

Section 2. Review of Course

Will this be a common or unique course? (select the appropriate option below)

x This course will be a unique course. (Go to Section 3.)

Section 3. Other Course Information

1. Are there instructional staffing impacts?
   X No, schedule management. Explain: Instructional resources will be redirected from existing courses (GE 121, GE 123, ME 240) that will no longer be taken by M.E. students.

2. Existing program in which course will be offered: Mechanical Engineering

   Provide a brief justification: The course consists of a combination of traditional lectures in the classroom supported and complemented by demonstrations and learning exercises conducted in the laboratory.

4. Proposed primary delivery: 001- Face to Face – Term Based Instruction

5. Term in which change will be effective: Fall 2015

6. Can this course be repeated for additional credit? No

7. Will the grade for this course be limited to S/U (pass/fail)?_____ Yes _____x No

8. Will section enrollments be capped? No

9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database?_____ Yes _____x No

10. Is this prefix already approved for your university?_____ x Yes _____x No

Section 4. To be completed by Academic Affairs

1. University department code: SME

2. Proposed CIP code: 14.1901
   Is this a new CIP code for this university?_____ x Yes _____x No