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.

**Course Title Change**

- **College:** Science, Engineering and Technology
- **Department:** Electrical and Computer Engineering
- **Program:** Electrical and Computer Engineering
- **Type of Change:** COURSE PROPOSALS
- **Proposed Change:** Change in Course — Other (Title)
- **Current Title:** Principles of Engineering Design
- **Proposed Title:** Principles of Engineering Design II
- **24-Char. Abbrev.:** Engineering Design II

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

Description should remain the same with the addition of the new prerequisite.

**Prerequisite:** EE336

**Rationale or Justification for Change:**

EE336 has been created to better meet student learning needs. This course needs to be required before students take EE 337 and the follow-on senior design sequence.

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### 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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* For Writing Intensive Courses, attach a description of the kind and quantity of writing.
* 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.

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### For New Courses

- **Instructional Type:** Lecture
- **Grading Format:** Grade
- **Course will be offered:** P/N

- **Course is an elective.**
- **Course is required for program.**
- **Pre- or Co-requisites:** EE 336
- **Other courses are being changed or eliminated. (Explain.)**

This course is supported by EE 336 - it is not a new course but a change in prerequisite.

- **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.
### Signature Page

<table>
<thead>
<tr>
<th><strong>Department</strong></th>
<th><strong>Recommended</strong> (Category/ies)</th>
<th><strong>Not Recommended</strong> (Category/ies)</th>
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<td>William B. Hudgins</td>
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<td><strong>College Curriculum Committee</strong></td>
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<td>Karen C. Chen</td>
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<td><strong>College Dean</strong></td>
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<td>General Education Subcommittee Chair</td>
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<td><strong>Undergraduate Curriculum and Academic Policy Committee</strong></td>
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<td>Dan R. Henningsen</td>
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<td><strong>Senior Vice President and Vice President for Academic Affairs</strong></td>
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<td>Sr. Vice President / Vice Pres Academic Affairs</td>
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Tentative Course Syllabus: EE 337 - Principles of Engineering Design (Spring 2006)

Instructor: Prof. Mark D. Dvorak  
Office: Trafton S-133  
Telephone: 389-1134  
Office Hours: As posted at office or by appointment  
Class Time/Location: 2:00 - 2:50, M in WH 284A

Textbook  

Catalog Description  
Application of design techniques in the engineering profession. Electrical engineering project and program management and evaluation including computer assisted tools for planning and reporting, design-to-specification techniques and economic constraints.

Goals  
Students will understand the best methods for initiating and managing their engineering careers.

Students will be prepared to execute their senior design projects.

Design Projects  
Project groups will be randomly created by the instructor. Each group will decide on a project, which may be “purchased”. However, if this is the case the project must include at least two additional elements beyond what is bought.

Grading  
Grading will be based on the weighting system listed below.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Quizzes</td>
<td>25%</td>
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<tr>
<td>In-Class Participation</td>
<td>25%</td>
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<tr>
<td>Engineering Notebook for Design Project</td>
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</table>
Additional attachment added – October 27, 2006

Lectures per topic EE 337 (1 credit course)
Many of the topics will be additionally reinforced through a project

1. Course introduction and administration (1 class)
2. Time management (1 class)
3. Communication skills (1 class)
4. Working with others (2 classes)
5. Structure of organizations (1 class)
6. Project management (1 class)
7. Develop engineering designs within real world constraints (2 classes)
8. Prepare and maintain an appropriate engineering notebook (1 class)
9. Quality management (1 class)
10. Legal issues (1 class)
11. Ethics (1 class)
12. Project presentations and recap (2)

Total class periods 15