1. School/Division: School of Engineering and Technology
2. Academic Subject Code: ECE
3. Course Number: 32600
4. Instructor:
5. Course Title: Engineering Project Management
   Recommended Abbreviation (Optional): Eng. Project Mgmt.
6. First time this course is to be offered (Semester/Year): Spring 2009
7. Credit Hours: Fixed at 3 or Variable from _________ to _________
8. Is this course to be graded S-F (only)? Yes ☑ No ☐
9. Is variable title approval being requested? Yes ☐ No ☑
10. Course description (not to exceed 50 words) for Bulletin publication:
    Credit 3. Class 3. P: Sophomore standing. Project management is an important
    skill that is needed in the private and public sectors as well as specialty
    businesses. This course will explore the challenges facing today's project managers and
    will provide a broad understanding of the project management environment
    focused on multiple aspects of the project.

11. Lecture Contact Hours: Fixed at 3 or Variable from _________ to _________
12. Non-Lecture Contact Hours: Fixed at 0 or Variable from _________ to _________
13. Estimated enrollment: 20 of which 0 percent are expected to be graduate students.
14. Frequency of scheduling: Spring/Fall ☑ Will this course be required for majors? No ☐
15. Justification for new course: Creation of elective to teach basics of project management, a useful career tool for engineers
16. Are the necessary reading materials currently available in the appropriate library? ☑
17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other
    materials.
18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is
    necessary, desirable, or unimportant.
19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be
    overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments
    directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus
    consulted.

Submitted by: 

[Signature] Date 4/6/09
Department Chairman/Division Director

[Signature] Date __________
Dean of Graduate School (when required)

Approved by: 

[Signature] Date 7/15/09
Dean

[Signature] Date __________
Chancellor/Vice-President

[Signature] Date __________
University Enrollment Services

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

UPS 724 University Enrollment Services Final—White; Chancellor/Vice-President—Blue; School/Division—Yellow;
Department/Division—Pink; University Enrollment Services Advance—White
**PURDUE UNIVERSITY**
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE
(100-400 LEVEL)

**DEPARTMENT:** Electrical and Computer Engineering  
**EFFECTIVE SESSION:** Spring 2009

**INSTRUCTIONS:** Please check the items below which describe the purpose of this request.
- [ ] 1. New course with supporting documents
- [ ] 2. Add existing course offered at another campus
- [ ] 3. Expiration of a course
- [ ] 4. Change in course number
- [ ] 5. Change in course title
- [ ] 6. Change in course credit/type
- [ ] 7. Change in course attributes (department head signature only)
- [ ] 8. Change in instructional hours
- [ ] 9. Change in course description
- [ ] 10. Change in course requisites
- [ ] 11. Change in semesters offered (department head signature only)
- [ ] 12. Transfer from one department to another

**PROPOSED:**
- **Subject Abbreviation:** ECE 32600
- **Course Number:** 32600
- **Long Title:** Engineering Project Management
- **Short Title:** Eng. Project Mgmt

**EXISTING:**
- **Subject Abbreviation:**
- **Course Number:**
- **Long Title:**
- **Short Title:**

**TERMS OFFERED**
- [ ] Summer
- [ ] Fall
- [ ] Spring

**CAMPUS(ES) INVOLVED**
- [ ] Calumet
- [ ] Cont Ed
- [ ] Tech Statewide
- [ ] Pl. Wayne
- [ ] W. Lafayette
- [ ] Indianapolis

**COURSE ATTRIBUTES:**
- [ ] Pass/Not Pass Only
- [ ] Satisfactory/Unsatisfactory Only
- [ ] Repetitable
- [ ] Maximum Repeatable Credit:
- [ ] Credit by Examination
- [ ] Designator Required
- [ ] Special Fees
- [ ] Registration Approval Type
- [ ] Instructor
- [ ] Department
- [ ] Full Time Privilege
- [ ] 9. Remedial
- [ ] 10. Honors
- [ ] 11. Off Campus Experience

**CREDIT TYPE**
- [ ] 1. Fixed Credit: Cr. Hrs.
- [ ] 2. Variable Credit Range:
  - Minimum Cr. Hrs.
  - Maximum Cr. Hrs.
- [ ] 3. Equivalent Credit:
- [ ] 4. Thesis Credit:

**INSTRUCTIONAL TYPE**
- Lect
- Rec
- Pntr
- Lab
- Studio
- Dist
- Clfn
- Exper
- Resnch
- Ind. Study

**MEETINGS PER WEEK**
- [ ] 2

**MINUTES PER MEETING**
- [ ] 75

**WEEKS OFFERED**
- [ ] 16

**% OF CREDIT ALLOCATED**
- [ ] 100

**DELIVERY METHOD**
- [ ] Asyn
- [ ] Syn

**DELIVERY MEDIUM (AUDIO)**
- [ ] Internet
- [ ] Live
- [ ] Text-Based, Video

**Cross-Listed Courses**

**COURSE DESCRIPTION (INCLUDE REQUIREMENTS):**
Credit 3. Class 3. P. Sophomore Standing Project management is an important skill that is needed in the private and public sectors as well as specialty businesses. This course will explore the challenges facing today’s project managers and will provide a broad understanding of the project management environment focused on multiple aspects of the project.

**Calumet Department Head**
- [ ] Date

**Calumet School Dean**
- [ ] Date

**Fort Wayne Department Head**
- [ ] Date

**Fort Wayne School Dean**
- [ ] Date

**Indianapolis Department Head**
- [ ] Date

**Indianapolis School Dean**
- [ ] Date

**North Central Department Head**
- [ ] Date

**North Central Chancellor**
- [ ] Date

**West Lafayette Department Head**
- [ ] Date

**West Lafayette College/School Dean**
- [ ] Date

**West Lafayette Registrar**
- [ ] Date

**OFFICE OF THE REGISTRAR**
Required Course: ECE/ME 32600 – Engineering Project Management

2009 Catalog Data: ECE/ME 32600: Engineering Project Management. Credit 3. Class 3. Project management is an important skill that is needed in the private and public sectors as well as specialty businesses. This course will explore the challenges facing today’s project managers and will provide a broad understanding of the project management environment focused on multiple aspects of the project.

Prerequisite: Sophomore standing.


Goals: This course will explore the challenges facing today’s project managers and will provide a broad understanding of the project management environment focused on multiple aspects of the project.

Outcomes: Upon successful completion of the course, students should be able to
1. Use library resources and Internet resources to find information necessary for the project. [I]
2. Use critical thinking in its design process. [e]
3. Use creative approaches when necessary to obtain project objectives. [n]
4. Analyze and interpret data. [b2]
5. Function effectively on a multi-disciplinary team through mutual support, consensus seeking, cooperation, and sharing responsibility. [d]
6. Write a project report, adhering to the specified format using an appropriate writing style, grammar, and spelling. [g2]
7. Make an oral presentation using effective visual aids. [g1]
8. An understanding of professional and ethical responsibility. [f]
9. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context. [h]
10. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice. [k]
<table>
<thead>
<tr>
<th>Lecture</th>
<th>Topic</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction&lt;br&gt;Modern Project Management</td>
<td>Read Chapter 1</td>
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<td>2</td>
<td>Organization Strategy and Project Selection</td>
<td>Read Chapter 2</td>
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<td><strong>Due</strong>: Homework 1</td>
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<td>3</td>
<td>Organization: Structure and Culture</td>
<td>Read Chapter 3</td>
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<td><strong>Due</strong>: Homework 2</td>
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<td>4</td>
<td>Defining the Project</td>
<td>Read Chapter 4</td>
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<td><strong>Due</strong>: Homework 3</td>
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<td>5</td>
<td>Estimating Project Times and Cost</td>
<td>Read Chapter 5</td>
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<td><strong>Due</strong>: Homework 4</td>
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<td>6</td>
<td>Developing a Project Plan</td>
<td>Read Chapter 6</td>
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<td><strong>Due</strong>: Homework 5</td>
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<td>7</td>
<td>Developing a Project Plan</td>
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<td><strong>Due</strong>: Homework 6</td>
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<td>8</td>
<td>Managing Risk</td>
<td>Read Chapter 7</td>
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<td><strong>Due</strong>: Homework 7</td>
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<td>9</td>
<td>Scheduling Resources and Costs</td>
<td>Read Chapter 8</td>
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<td>10</td>
<td>Scheduling Resources and Costs&lt;br&gt;Reducing Project Duration</td>
<td>Read Chapter 9</td>
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<td><strong>Due</strong>: Homework 9</td>
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<td>11</td>
<td>Reducing Project Duration</td>
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<td><strong>Exam 1</strong></td>
<td>Chapters 1-9</td>
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<td>13</td>
<td>Leadership: Being an Effective Project Manager</td>
<td>Read Chapter 10</td>
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<td>14</td>
<td>Managing Project Teams</td>
<td>Read Chapter 11</td>
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<td>15</td>
<td>Managing Project Teams</td>
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<td><strong>Due</strong>: Homework 13</td>
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<td>16</td>
<td>Outsourcing: Managing Interorganizational Relations</td>
<td>Read Chapter 12</td>
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<td><strong>Due</strong>: Homework 14</td>
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<td>17</td>
<td>Progress and Performance Measurement and Evaluation</td>
<td>Read Chapter 13</td>
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<td>Due: Draft Reports</td>
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<td>18</td>
<td>Progress and Performance Measurement and Evaluation</td>
<td>Read Chapter 13</td>
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<td>Due: Homework 15</td>
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<td>19</td>
<td>Project Audit and Closure</td>
<td>Read Chapter 14</td>
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<td>Due: Homework 16</td>
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<td>20</td>
<td><strong>Project Presentations</strong></td>
<td><strong>Due: Project</strong></td>
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<td><strong>Written Reports</strong></td>
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<td>International Projects</td>
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<td>Oversight</td>
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<td><strong>Exam 2</strong></td>
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<td>Product Development Process</td>
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<td>Overview</td>
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<td>Technology Development Process</td>
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<td>Proof-of-Concept</td>
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<td>Proof-of-Concept</td>
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<td>Electronic Components</td>
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<td>Technology Development</td>
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<td>Mechanical Components</td>
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<td><strong>Project Launch Presentations</strong></td>
<td><strong>Due: Project</strong></td>
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<td><strong>Launch Documents</strong></td>
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<td><strong>Final Exam</strong></td>
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</table>

**Computer usage:** Variable based on the group project topic, but student should expect to conduct internet research, word processing, spreadsheet creation and manipulation, and the use of project management software.

**Laboratory projects:** None.

**ABET category:**

**Prepared by:**  Yaobin Chen     **Date:**  April 16, 2009