PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF A GRADUATE COURSE
(50000-60000 LEVEL)

DEPARTMENT Mechanical Engineering
EFFECTIVE SESSION Spring 2015

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

1. New course with supporting documents (complete proposal form)
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
8. Change in instructional hours
9. Change in course description
10. Change in course requisites
11. Change in semesters offered
12. Transfer from one department to another

PROPOSED:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>ME</th>
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</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>59600</td>
</tr>
<tr>
<td>Long Title</td>
<td>Experimental Courses</td>
</tr>
<tr>
<td>Short Title</td>
<td></td>
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</table>

Note: Abbreviated title will be entered by the Office of the Registrar if omitted. (30 characters only)

EXISTING:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
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<tbody>
<tr>
<td>Course Number</td>
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</table>

TERMS OFFERED

Check All That Apply:

- [X] Fall
- [ ] Spring
- [X] Summer

CAMPUS(ES) INVOLVED

- Calumet
- Cont Ed
- Ft. Wayne
- Tech Statewide
- Indianapolis
- X. W. Lafayette

CREDIT TYPE

<table>
<thead>
<tr>
<th>1. Fixed Credit: Cr. Hrs.</th>
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<tbody>
<tr>
<td>2. Variable Credit Range:</td>
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<tr>
<td>Minimum Cr. Hrs. (Check One) To</td>
</tr>
<tr>
<td>Maximum Cr. Hrs.</td>
</tr>
<tr>
<td>3. Equivalent Credit: Yes No</td>
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<tr>
<td>4. Thesis Credit: Yes No</td>
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COURSE ATTRIBUTES

| 1. Pass/Not Pass Only |
| 2. Satisfactory/Unsatisfactory Only |
| 3. Repeatable |
| Maximum Repeatable Credit: |
| 4. Credit by Examination |
| 5. Special Fees |
| 6. Registration Approval Type: |
| Department |
| Instructor |
| 7. Variable Title |
| 8. Honors |
| 9. Full-Time Privilege |
| 10. Off-Campus Experience |

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Experimental classes offered at the graduate level on a temporary basis to test the viability of offering the courses on a permanent basis.

Calumet Department Head Date
Calumet School Dean Date

Calumet Undergrad Curriculum Committee Date

Fort Wayne Department Head Date
Fort Wayne School Dean Date

Fort Wayne Chancellor Date
Undergrad Curriculum Committee Date

Indianapolis Department Head Date
Indianapolis School Dean Date

Date Approved by Graduate Council

North Central Department Head Date
North Central School Dean Date

Graduate Council Secretary Date

West Lafayette Department Head Date
West Lafayette College/School Dean Date

West Lafayette Registrar Date

OFFICE OF THE REGISTRAR
TO: The Engineering Faculty

FROM: The Faculty of the School of Mechanical Engineering

RE: ME 59600 Experimental Courses

The Faculty of the School of Mechanical Engineering has approved the following course for a permanent course number. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**ME 59600 Experimental Courses**

Sem. 1,2,S, Class: Variable, Lab: Variable, Cr 0-6cr, Prerequisites/Co-requisites: Varies and will be prescribed at the time of experimental offering.

Experimental classes offered at the graduate-level on a temporary basis to test the viability of offering the course on a permanent basis.

**Reason:** The intent of this course is to provide a mechanism to offer experimental courses at the graduate-level separate from project or research-based experiences to allow for easier tracking of course enrollment trends. These courses can count for technical elective credit.

James D. Jones, Associate Head/Professor
School of Mechanical Engineer
Supporting Document for a New Graduate Course

To: Purdue University Graduate Council
From: Faculty Member: James D. Jones
Department: Mechanical Engineering
Campus: West Lafayette
Date: 12-8-2014
Subject: Proposal for New Graduate Course-Documentation Required by the Graduate Council to Accompany Registrar's Form 40G

Contact for information if questions arise:
Name: James D. Jones
Phone Number: 45691
E-mail: jonesjd@purdue.edu
Campus Address:

Course Subject Abbreviation and Number: ME.59600
Course Title: Experimental Courses

A. Justification for the Course:

- Provide a complete and detailed explanation of the need for the course (e.g., in the preparation of students, in providing new knowledge/training in one or more topics, in meeting degree requirements, etc.), how the course contributes to existing majors and/or concentrations, and how the course relates to other graduate courses offered by the department, other departments, or interdisciplinary programs.

- Justify the level of the proposed graduate course (50000- or 60000-level) including statements on, but not limited to: (1) the target audience, including the anticipated number of undergraduate and graduate students who will enroll in the course; and (2) the rigor of the course.

B. Learning Outcomes and Method of Evaluation or Assessment:

- Describe the course objectives and student learning outcomes that address the objectives (i.e., knowledge, communication, critical thinking, ethical research, etc.).

- Describe the methods of evaluation or assessment of student learning outcomes. (Include evidence for both direct and indirect methods.)

- Grading criteria (select from dropdown box); include a statement describing the criteria that will be used to assess students and how the final grade will be determined.

Criteria
• Identify the method(s) of instruction (select from dropdown box) and describe how the methods promote the likely success of the desired student learning outcomes.

Method of Instruction

C. Prerequisite(s):

• List prerequisite courses by subject abbreviation, number, and title.

• List other prerequisites and/or experiences/background required. If no prerequisites are indicated, provide an explanation for their absence.

D. Course Instructor(s):

• Provide the name, rank, and department/program affiliation of the instructor(s).

• Is the instructor currently a member of the Graduate Faculty? — Yes — No
  (If the answer is no, indicate when it is expected that a request will be submitted.)

E. Course Outline:

• Provide an outline of topics to be covered and indicate the relative amount of time or emphasis devoted to each topic. If laboratory or field experiences are used to supplement a lecture course, explain the value of the experience(s) to enhance the quality of the course and student learning. For special topics courses, include a sample outline of a course that would be offered under the proposed course.

F. Reading List (including course text):

• A primary reading list or bibliography should be limited to material the students will be required to read in order to successfully complete the course. It should not be a compilation of general reference material.

• A secondary reading list or bibliography should include material students may use as background information.

G. Library Resources

• Describe the library resources that are currently available or the resources needed to support this proposed course.

H. Example of a Course Syllabus (While not a necessary component of this supporting document, an example of a course syllabus is available, for information, by clicking on the link below, which goes to the Graduate School’s Policies and Procedures Manual for Administering Graduate Student Programs. See Appendix K.)


(Revised and Approved by the Graduate Council 10/10)