

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(100-400 LEVEL)

Print Form

EFD 9-06

Fall 07

DEPARTMENT Mechanical Engineering

EFFECTIVE SESSION Spring 2007

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

- | | |
|---|---|
| <input type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes (department head signature only) |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <input type="checkbox"/> 8. Change in instructional hours |
| <input type="checkbox"/> 3. Expiration of a course | <input checked="" type="checkbox"/> 9. Change in course description |
| <input type="checkbox"/> 4. Change in course number | <input type="checkbox"/> 10. Change in course requisites |
| <input checked="" type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED:	EXISTING:
Subject Abbreviation <u>ME</u>	Subject Abbreviation <u>ME</u>
Course Number <u>290</u>	Course Number <u>290</u>
Long Title <u>Global Engineering Professional Seminar</u>	
Short Title <u>Global Engr. Prof. Sem</u>	

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

TERMS OFFERED
Check All That Apply:

Summer Fall Spring

CAMPUS(ES) INVOLVED

<input type="checkbox"/> Calumet	<input type="checkbox"/> N. Central
<input type="checkbox"/> Cont Ed	<input type="checkbox"/> Tech Statewide
<input type="checkbox"/> Ft. Wayne	<input checked="" type="checkbox"/> W. Lafayette
<input type="checkbox"/> Indianapolis	

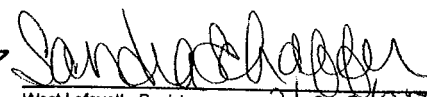
CREDIT TYPE	COURSE ATTRIBUTES: Check All That Apply
1. Fixed Credit: Cr. Hrs. <u>1</u>	1. Pass/Not Pass Only <input type="checkbox"/>
2. Variable Credit Range: Minimum Cr. Hrs. _____ (Check One) To _____ Or _____ Maximum Cr. Hrs. _____	2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	3. Repeatable <input type="checkbox"/>
4. Thesis Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	Maximum Repeatable Credit: _____
	4. Credit by Examination <input type="checkbox"/>
	5. Designator Required <input type="checkbox"/>
	6. Special Fees <input type="checkbox"/>
	7. Registration Approval Type Department <input type="checkbox"/> Instructor <input type="checkbox"/>
	8. Variable Title <input type="checkbox"/>
	9. Remedial <input type="checkbox"/>
	10. Honors <input type="checkbox"/>
	11. Full Time Privilege <input type="checkbox"/>
	12. Off Campus Experience <input type="checkbox"/>

Instructional Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Delivery Method (Asyn. Or Syn.)	Delivery Medium (Audio, Internet, Live, Text-Based, Video)	Cross-Listed Courses
Core	50	1	100	Syn.	Live		
Presentation							
Laboratory							
Lab Prep							
Studio							
Distance							
Clinic							
Experiential							
Research							
Ind. Study							
Pract/Observ							

ME 290 Global Engineering Professional Seminar
Sem. 1, 2, Class 1, cr. 1.
Prerequisite: Mechanical Engineering majors only.

Forum on contemporary issues in the global profession of mechanical engineering. Professionalism and ethics. Interactions with engineering faculty and with professionals outside the University. Professional portfolio of communication assignments including understanding of cultural differences and collaborating across cultural boundaries. Individual plan of study. Academic career options including Global Competency Certificate.

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 _____


 Sandra Chesser
 West Lafayette Registrar
 Date: 2/27/07

2/27/07
Am

RECEIVED
MAR 2 2007
LIBRARY
UNIVERSITY OF CALIFORNIA

TO: The Engineering Faculty
FROM: The Faculty of the School of Mechanical Engineering
RE: ME 290 Course Title and Description Change

The Faculty of the School of Mechanical Engineering has approved the following course title and description change. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From:

ME 290 Mechanical Engineering Professional Seminar
Sem. 1, 2, Class 1, cr. 1.
Prerequisite: Mechanical Engineering majors only.

Professional Seminar on contemporary issues in mechanical engineering including professionalism, ethics, and communications. Importance of acquiring "global competencies" and international experience is emphasized. Communications work cumulates in a graded portfolio. Interaction with student organizations, engineering professionals, and faculty. Overview of undergraduate curriculum facilitates development of individual Plans of Study.

To:

ME 290 Global Engineering Professional Seminar
Sem. 1, 2, Class 1, cr. 1.
Prerequisite: Mechanical Engineering majors only.

Forum on contemporary issues in the global profession of mechanical engineering. Professionalism and ethics. Interactions with engineering faculty and with professionals outside the University. Professional portfolio of communication assignments including understanding of cultural differences and collaborating across cultural boundaries. Individual plan of study. Academic career options including Global Competency Certificate.

Reason: The proposed new title and course description better reflects the course's new emphasis on the global engineering enterprise.

**APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE COMMITTEE ON
FACULTY RELATIONS**

CFR Minutes 7

Date 10-27-06

Chairman CFR Michael J. Jett

E. Daniel Hirleman, Head
School of Mechanical Engineering

**ME 290
Global Engineering
Professional Seminar**

Course Outcomes

1. Provide a solid foundation in *global engineering skills*. (P.O. 3a)
2. Introduce the *global engineering community* and encourage active involvement with *professional associations* such as ASME and SAE to develop teamwork and leadership skills. (P.O. 3b)
3. Explore the *ME Curriculum* and identify resources available for planning academic program including global literacies (language and area studies) and for obtaining diverse *industrial experience appropriate for developing global competencies*. (P.O. 1a,2d)
4. Support the development of a strong *ethical framework for global professional workplace* as a responsible member of the global engineering community. (P.O. 2c, 3a, 3c)

Global Communication Skills

1. Professional presentation of engineering interests and credentials;
2. Competency with digital media for diverse and distant audiences.
3. Knowledge of cultural differences.
4. Strategies for collaborating across cultural boundaries.

Global Professional Engineering Opportunities

1. Industry speakers representing a range of ME global career paths.
2. Curricular resources for language area studies; options for diploma endorsement, "Global Competency."
3. Professional association representatives (e.g., ASME,

Global Professional and Ethical Issues

1. Code of Ethics of Engineers.
2. Ethical reasoning frameworks.
3. Ethical practices: case studies.
4. Guidelines for Professional Conduct.
5. Ethical approaches to cultural differences.

Capable Global Professionals

Skilled global communicators committed to professional and ethical leadership in the global engineering community. (P.O. 2a,2b,3a)

GLOBAL ENGINEERING PROFESSIONAL SEMINAR

LECTURE SCHEDULE AND COMMUNICATIONS ASSIGNMENTS

ME 290 Fall 2006

Week 1	August 24	<p>E. D. Hirleman, Professor and Head, ME <i>Welcome to the School; Overview of Global Engineering</i></p> <p>Dianne Atkinson, Seminar Instructor, Communications (ME 109) <i>Overview of the Global Engineering Professional Seminar: Objectives, Procedures, and Grades</i></p> <p>■ Assignments: Read ME290 Bulletin every week; note resume draft needed for Week 2.</p>
Week 2	August 31	<p>Dianne Atkinson <i>Professional Communications for a Global Market: Interviews, Cover Letters, & Résumés</i></p> <p>□ Bring to class: résumé draft for in-class reviews; include international segment.</p> <p>□ Due Friday, Sept. 1— video appointments via Computer Support Reservations.</p> <p>■ Assignment: Draft transmittal letter and revise résumé draft.</p>
Week 3	September 7	<p>Jerry Matthews, Director, Office for Industrial Experience (ME 222A) <i>Gaining Industrial Experience for the Global Workplace</i></p>
Week 4	September 14	<p>Mike Logan, Systems Manager, Mechanical Engineering Technical Services <i>Server Basics and Security Issues: Getting Started with Internet Site Construction</i></p> <p>Dianne Atkinson <i>Document Design Issues for the Internet: « Global » Publishing</i></p> <p>□ Bring to class: revised resume and first draft of transmittal letter for review.</p> <p>■ Assignment: Initiate professional site: run “webinit” on ME “Tools.”</p> <p>■ Assignment: Update and complete any needed revision of the POS.</p>
Week 5	September 21	<p>Guest Speaker, Weekend of ME Awards Convocation, Purdue Homecoming</p>
Week 6	September 28	<p>J. D. Jones, Associate Professor and Associate Head, ME <i>Overview of the Undergraduate Curriculum; Honors, Global Certificate Options.</i></p> <p>□ Due in class: (updated) POS will be collected for Academic Advisor review.</p> <p>■ Assignment: Read ethics materials posted on MECOM.</p>
Week 7	October 5	<p>Dianne Atkinson New Media Issues: Designing for Diverse Users</p> <p>□ Bring to class for review: 1) Tools site cover (printout of “index.shtml”) and 2) “site map” diagram of links and pages.</p> <p>■ Assignment: Plan (use handout) and draft PowerPoint design of engineering project.</p>
Week 8	October 12	<p>Peter Meckl, Associate Professor, Communications Chair, ME <i>Professional Engineering Ethics</i></p> <p>■ Assignment: Review ethics resources, decision matrix, and cultural values map.</p>
Week 9	October 19	<p>Dianne Atkinson <i>Working with Value Differences: Intercultural Issues in “World Readability”</i></p> <p>□ Bring to class: Powerpoint exhibit, a 3-slide engineering project narrative.</p> <p>■ Assignment: “Values map” VSM94; draft ethics analysis; continue Tools site work.</p>
Week 10	October 26	<p>Guest Speaker</p>
Week 11	November 2	<p>Dianne Atkinson <i>Revising and Integrating: Portfolio and WWW Site Completion</i></p> <p>□ Bring to class for review: Ethics analysis.</p> <p>□ Monday of Week 12, November 6: Bring Portfolios to ME 109 before 5 p.m.</p>
Week 12	November 9	<p>Purdue Mechanical Engineering Research Opportunities Graduate Student Commentary and Mechanical Engineering Research Lab Tours</p>
Week 13	November 16	<p>Eckhard Groll, Director, ME International Programs Yating Chang, Assistant Director, COE Global Engineering Programs <i>International Opportunities for Mechanical Engineers; Study Abroad Panel; Purdue Student GEARE Chapter.</i></p>
Week 14	November 30	<p>Guest Speaker</p>
Week 15	December 7	<p>Dan Hirleman, Jim Jones, Questions, Answers, and Acknowledgements Dianne Atkinson, Virtual Portfolio Highlights</p> <p>■ Portfolios returned.</p>

