Office of the Registrar
FORM 40 REV 12/09

~~PURDUE UNIVERSITY~~

EFD 56-11

REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

DEPARTMENT: School of Nuclear Engineering

EFFECTIVE SESSION: ~~Fall 2011~~ (20120)

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

- [x] 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:		EXISTING:	
Subject Abbreviation	NUCL	Subject Abbreviation	~~NUCL~~
Course Number	48000	Course Number	~~49700~~
Long Title	Nuclear Engineering Technical Communications		
Short Title	Nucl Tech Communications		

Abbreviated title will be entered by the Office of the Registrar if omitted (30 CHARACTERS ONLY)

TERMS OFFERED
Check All That Apply.
- [ ] Summer
- [x] Fall
- [ ] Spring

CAMPUS(ES) INVOLVED
- [ ] Calumet
- [ ] Cont Ed
- [ ] Ft. Wayne
- [ ] Indianapolis
- [ ] N. Central
- [ ] Tech Statewide
- [x] W. Lafayette

CREDIT TYPE
1. Fixed Credit Cr Hrs. 3
2. Variable Credit Range:
   Minimum Cr. Hrs
   (Check One) To [ ] Or [ ]
   Maximum Cr Hrs
3. Equivalent Credit: Yes [ ] No [x]

COURSE ATTRIBUTES: Check All That Apply
1 Pass/Not Pass Only [ ]
2 Satisfactory/Unsatisfactory Only [ ]
3 Repeatable [ ]
Maximum Repeatable Credit [ ]
4 Credit by Examination [ ]
5 Fees [ ] Coop [ ] Lab [ ] Rate Request
Include comment to explain fee
6 Registration Approval Type
Department [ ] Instructor [ ]
7 Variable Title [ ]
8 Honors [ ]
9 Full Time Privilege [ ]
10 Off Campus Experience [ ]

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	3	16	100
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Course

RECEIVED
2011 OCT 26 AM 8:15
OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

This course makes students aware of the importance of communications skills - written, oral, graphical and interpersonal - in a successful nuclear engineering career and gives them the opportunity to develop and practice those skills. Students learn how to access, evaluate, use and synthesize relevant technical literature. In addition, through the writing and speaking assignments, students develop team work skills, gain an understanding of professional and ethical responsibilities of engineering, learn to write a simple propose and learn about selected contemporary global economic, social and political issues, particularly with respect to nuclear topics. Restrictions: Must be enrolled in the School of Nuclear Engineering.

*COURSE LEARNING OUTCOMES

1) The ability to communicate effectively. 2) The ability to understand the impact of engineering solutions in a global and societal context. 3) A knowledge of contemporary issues, particularly with respect to nuclear topics. 4) An understanding of professional and ethical responsibility.

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 Faculty Senate Chair	Date	Vice Chancellor for Academic Affairs	Date
A. Hasseem	9/15/2011		
West Lafayette Department Head	Date	West Lafayette College/School Dean	Date
		West Lafayette Registrar	10/30/11 Date

OFFICE OF THE REGISTRAR

10/28/11

NUCL 48000

Engineering Faculty Document (EFD) No. 56-11
Date: May 3, 2011

TO: Faculty of College of Engineering

FROM: Faculty of the School of Nuclear Engineering

SUBJECT: New Undergraduate Course, NUCL 48000, Nuclear Engineering Technical Communications

The Faculty of the School of Nuclear Engineering has approved the new course listed below. This action is now submitted to the Engineering Faculty with a recommendation for approval.

NUCL 48000, Nuclear Engineering Technical Communications
Sem. 1, Class 3, Cr. 3
Restriction: Must be enrolled in the School of Nuclear Engineering

Course Description:
This course makes students aware of the importance of communications skills – written, oral, graphical and interpersonal – in a successful nuclear engineering career and gives them the opportunity to develop and practice those skills. Students learn how to access, evaluate, use and synthesize relevant technical literature. In addition, through the writing and speaking assignments, student develop teamwork skills, gain an understanding of professional and ethical responsibilities of engineers, learn to write a simple proposal and learn about the selected contemporary global economic, social and political issues, particularly with respect to nuclear topics.

Restrictions: Must be enrolled in the School of Nuclear Engineering.

Reason:
As a part of its continuous improvement effort, the School of Nuclear Engineering periodically surveys its seniors and alumni and employers of its graduates. The survey asks about the importance and level of preparation in several skills important to practicing engineers. As is common for engineering graduates, one skill in which preparation was found to be inadequate was communications. This course has been taught on an experimental basis, and recent survey results show an improvement in preparation in communications skills. In addition, this course teaches students to address issues, situations and audiences specific to Nuclear Engineering. Thus, the School of Nuclear Engineering wants to make the course permanent.

The experimental version of this course (NUCL 497) has been offered in Fall 2006 (19 enrolled), Spring 2007 (14 enrolled), Fall 2007 (13 enrolled), Spring 2008 (11 enrolled), Fall 2008 (9 enrolled), Spring 2009 (9 enrolled), Fall 2009 (5 enrolled), Fall 2011 (7 enrolled). This course is helpful to all students regardless of their previous communication education.

A. Hassanein 9/15/2011
Ahmed Hassanein, Department Head
Paul L. Wattelet Professor
School of Nuclear Engineering

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE ENGINEERING
CURRICULUM COMMITTEE

ECC Minutes #5

Date 10/17/11

Chairman ECC R. Cipra

NUCL 48000

Supporting Documents
Engineering Faculty Document (EFD) No. 56-11
Date: May 3, 2011

SYLLABUS
Nuclear Engineering 480, Communication Skills for Engineers
Fall Semester 2010

Course Time: Tuesday and Thursday, 12:00 – 1:15 p.m.
Course Location: Grissom Hall, Room 166
Instructor: Prof. Audeen Fentiman
Phone: 494-1870
E-mail: fentiman@purdue.edu
Office: ARMS 2000
Office hours: By appointment

Textbooks:

1. Writing for the Technical Professions, 3rd Edition, Kristin Woolever, Pearson Education, Inc., 2005
2. The Elements of Style, 4th Edition, William Strunk Jr. and E.B. White, Allyn & Bacon, 2000

Course Objectives: In this course, students will

- become aware of the importance of strong communications skills (written, oral, graphical, and interpersonal) in a successful engineering career
- have an opportunity to learn and practice effective communication skills
- access, use, and synthesize relevant technical literature
- become effective communicators whose skills are widely recognized by employers
- develop teamwork skills, gain an understanding of professional and ethical responsibilities of engineers, and learn (and communicate) about selected contemporary global economic, social and political issues.

Grading:

The major assignment in this course will be to prepare high-quality team research paper and present it to the class. In addition, students will complete six short writing or speaking assignments that will allow them to practice skills taught in the class. Grading will be based on performance on writing assignments and oral presentations and on attendance. There will be no exams or quizzes.

Attendance will be graded as follows: after 3 unexcused absences, each unexcused absence from a lecture will result in a 5% reduction of the student's final grade, and each unexcused absence on a day when student presentations are made will result in a 10% reduction in the student's final grade. If you are ill, do not attend class. Send an e-mail to the instructor before class stating that you are ill. The absence will be excused. Written assignments due the day of the absence can be submitted electronically. Presentations missed will be rescheduled.

Plagiarism is a serious offense. Any document that includes materials that have been plagiarized will receive a grade of zero.

NUCL 48000

Plagiarism is defined in "Academic Integrity: A Guide for Students" (http://www.purdue.edu/odos/osrr/integrity.htm) as follows:
"Plagiarism is a special kind of academic dishonesty in which one person steals another person's ideas or words and falsely presents them as the plagiarist's own product. This is most likely to occur in the following ways:
using the exact language of someone else without the use of quotation marks and without giving proper credit to the author
presenting the sequence of ideas or arranging the material of someone else even though such is expressed in one's own words, without giving appropriate acknowledgment
submitting a document written by someone else but representing it as one's own"

Assignment	Percent of course grade
Research Paper	*Total value 50%*
Topic of paper (#2)	0%
Outline (#4)	5%
Abstract (#6)	5%
Draft of paper	8%
Draft of slides	8%
Final paper	12%
Final presentation	12%
Other assignments	*Total value 50%*
Resume (#1)	8%
Ethics essay (#3)	8%
Briefing (#5)	8%
Impact of engineering projects (#7)	8%
Letter proposal (#8)	10%
Interviews (#9)	8%

Emergency Provisions:

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. Here are ways to get information about changes in this course. Blackboard Vista web page, my email address (fentiman@purdue.edu), and my office phone (494-1870).

In case of a fire alarm, students will leave the building and assemble in the east end of the main hall on the first floor of Stewart Center – near the doors you would go through to get to the Union.

In case of tornado, go down the center staircase of Grissom Hall and assemble in the basement hall.

NUCL 48000

Supporting Documents
Engineering Faculty Document (EFD) No. 56-11
Date: May 3, 2011

ASSIGNMENT SHEET
Nuclear Engineering 480, Essential Communication Skills for Engineers
Fall Semester 2010

In the Event of Emergency:

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. Here are ways to get information about changes in this course. Blackboard Vista web page, my email address: vanepa@purdue.edu, and my office phone: 496-7680.

Assignments

R – Aug 26	**Assignment #1:** 1 - page resume (for possible use at the Industrial Roundtable)
T – Aug 31	**Due #1:** 1-page resume **Assignment #2:** students for teams and select topic for research paper
T – Sept 7	**Assignment #3:** ethics essay **Returned #1:** 1-page resume with comments and discussion
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R – Sept 23	**Assignment #5:** briefing on contemporary issues
T – Sept 28	**Returned #3:** ethics essay with comments
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R – Oct 7	**Due #5:** briefing on contemporary issues
R – Oct 14	**Due #3:** revised ethics essay **Assignment #6:** abstract of paper **Returned #4:** outline of paper
R – Oct 21	**Due #6:** abstract of paper **Assignment #7:** team paper on impact of engineering solutions

NUCL 48000

T – Oct 26	**Returned #6:** abstract of paper with comments **Assignment #8:** letter proposal
R – Oct 28	**Assignment #9:** preparing for an interview
T – Nov 2	**Due #9:** interviews
R – Nov 4	**Due #9:** interviews **Due #7:** team paper on impact of engineering solutions
T – Nov 16	**Due #8:** letter proposal **Returned #7:** paper on impact of engineering solutions with comments
R – Nov 18	**Due:** draft slides for presentation
T – Nov 23	**Returned:** draft slides for presentation – with comments and discussion **Due:** final draft of research paper
T – Nov 30	**Due:** research paper presentations **Returned:** final draft of paper – with comments and discussion
R – Dec 2	**Due:** research paper presentations
T – Dec 7	**Due:** research paper presentations
R – Dec 9	**Due:** research paper presentations **Due:** final written papers

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DEPARTMENT: School of Nuclear Engineering EFFECTIVE SESSION: Fall 2011

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- [ ] Indianapolis
- [ ] N. Central
- [ ] Tech Statewide
- [x] W. Lafayette

CREDIT TYPE
1. Fixed Credit Cr. Hrs.: 3
2. Variable Credit Range:
   Minimum Cr. Hrs
   (Check One) To [ ] Or [ ]
   Maximum Cr. Hrs
3. Equivalent Credit: Yes [ ] No [x]

COURSE ATTRIBUTES: Check All That Apply
1. Pass/Not Pass Only [ ]
2. Satisfactory/Unsatisfactory Only [ ]
3. Repeatable [ ]
   Maximum Repeatable Credit: [ ]
4. Credit by Examination [ ]
5. Fees [ ] Coop [ ] Lab [ ] Rate Request
   Include comment to explain fee
6. Registration Approval Type
   Department [ ] Instructor [ ]
7. Variable Title [ ]
8. Honors [ ]
9. Full Time Privilege [ ]
10. Off Campus Experience [ ]

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	3	16	100
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses

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Fort Wayne Department Head		Fort Wayne School Dean	
Indianapolis Department Head		Indianapolis School Dean	
North Central Faculty Senate Chair		Vice Chancellor for Academic Affairs	
West Lafayette Department Head	9/15/2011	West Lafayette College/School Dean	
		West Lafayette Registrar	

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School of Nuclear Engineering

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OF THE SCHOOLS OF ENGINEERING
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CURRICULUM COMMITTEE

ECC Minutes #5

Date 10/17/11

Chairman ECC R. Cipra

SYLLABUS
Nuclear Engineering 480, Communication Skills for Engineers
Fall Semester 2010

Course Time: Tuesday and Thursday, 12:00 – 1:15 p.m.
Course Location: Grissom Hall, Room 166
Instructor: Prof. Audeen Fentiman
Phone: 494-1870
E-mail: fentiman@purdue.edu
Office: ARMS 2000
Office hours: By appointment

Textbooks:

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