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

DEPARTMENT: School of Nuclear Engineering

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: NUCL
- Course Number: 48000
- Long Title: Nuclear Engineering Technical Communications
- Short Title: Nucl Tech Communications

EXISTING:

- Subject Abbreviation: NUCL
- Course Number: 40706

TERMS OFFERED:

- Summer
- Fall [✓]
- Spring

CAMPUS(ES) INVOLVED:

- Calumet
- Fort Wayne
- Indianopolis
- N. Central
- Tech Statewide
- W. Lafayette

CRedit TYPE:

1. Fixed Credit: 0 Cr. Hrs.
2. Variable Credit Range: To [✓]

MINIMUM CR. HRS.

Maximum Cr. Hrs: 12

Equivalent Credit: [✓] Yes

SCHEDULE:

- Lecture: 3
- Recitation: 0
- Presentation: 0
- Laboratory: 0
- Studio: 0
- Distance: 0
- Clinic: 0
- Experimental: 0
- Research: 0
- Ind. Study: 0
- Pract/Observ: 0

Weeks: 16

OFFERED: 100

COURSE ATTRIBUTES:

- 6 Regulation Approval Type
- 5 Pre-requisite
- 4 Credit by Examination
- 3 Repeatable
- 2 Satisfactory/Unsatisfactory Only
- 1 Pass/No Pass Only

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

Indianopolis Department Head Date

Indianopolis School Dean Date

North Central Faculty Senate Chair Date

Vice Chancellor for Academic Affairs Date

West Lafayette Department Head Date

West Lafayette College Dean Date

West Lafayette Registrar Date

OFFICE OF THE REGISTRAR

EFD 56-1

FALL 2014

October 29, 2014

A. Hardiman

10/28/11
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
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Course Description:
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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.

Ahmed Hassanein Department Head
Paul L. Wattelet Professor
School of Nuclear Engineering

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

ECC Minutes #5
Date 10/11/11
Chairman ECC R. Cesna
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:**

**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.

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

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Assignments

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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

T - Sept 14 Due #2: hard copy of paper student and advisor have selected

R - Sept 16 Due #3: ethics essay
Assignment #4: write an outline for the research paper

R - Sept 23 Assignment #5: briefing on contemporary issues

T - Sept 28 Returned #3: ethics essay with comments

R - Sept 30 Due #5: briefing on contemporary issues
Due #4: outline of research paper

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

DEPARTMENT School of Nuclear Engineering
EFFECTIVE SESSION Fall 2011

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

☑ 1. New course with supporting documents
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PROPOSED:
Subject Abbreviation NUCL
Course Number 48000
Long Title Nuclear Engineering Technical Communications
Short Title Nucl Tech Communications

Existing:
Subject Abbreviation NUCL
Course Number 49700

TERMS OFFERED:
Check All That Apply.
☐ Summer ☐ Fall ☐ Spring

CAMPUS(ES) INVOLVED
☐ Calumet ☐ H. Centr
☐ Cont Ed ☐ Tech Statewide
☐ Ft. Wayne ☐ W. Lafayette
☐ Indianapolis

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

CREDIT TYPE

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<th>Studio</th>
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Ft. Wayne Department Head Date Ft. Wayne School Dean Date

Indianapolis Department Head Date Indianapolis School Dean Date

North Central Faculty Senate Chair Date Vice Chancellor for Academic Affairs Date

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

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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
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Fall Semester 2010

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Course Location: Grissom Hall, Room 166
Instructor: Prof. Audeen Fentiman
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