

**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF A GRADUATE COURSE  
(500-600 LEVEL)

Print Form

DEPARTMENT IUPU, Engineering & Technology

EFFECTIVE SESSION Fall 2008

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

- |                                     |                                                                  |                          |                                             |
|-------------------------------------|------------------------------------------------------------------|--------------------------|---------------------------------------------|
| <input checked="" type="checkbox"/> | 1. New course with supporting documents (complete proposal form) | <input type="checkbox"/> | 7. Change in course attributes              |
| <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 type="checkbox"/> | 9. Change in course description             |
| <input type="checkbox"/>            | 4. Change in course number                                       | <input type="checkbox"/> | 10. Change in course requisites             |
| <input type="checkbox"/>            | 5. Change in course title                                        | <input type="checkbox"/> | 11. Change in semesters offered             |
| <input type="checkbox"/>            | 6. Change in course credit/type                                  | <input type="checkbox"/> | 12. Transfer from one department to another |

<b>PROPOSED:</b>		<b>EXISTING:</b>		<b>TERMS OFFERED</b> Check All That Apply:		
Subject Abbreviation	TECH	Subject Abbreviation		<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
Course Number	520	Course Number		<b>CAMPUS(ES) INVOLVED</b>		
Long Title	Technology, Society & Ethics			<input type="checkbox"/> Calumet	<input type="checkbox"/> N. Central	
Short Title	Tech, Society & Ethics			<input type="checkbox"/> Cont Ed	<input type="checkbox"/> Tech Statewide	
				<input type="checkbox"/> Ft. Wayne	<input type="checkbox"/> W. Lafayette	
				<input checked="" type="checkbox"/> Indianapolis		
Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)						

<b>CREDIT TYPE</b>		<b>COURSE ATTRIBUTES: Check All That Apply</b>			
1. Fixed Credit: Cr. Hrs.	3	1. Pass/Not Pass Only	<input type="checkbox"/>	7. Registration Approval Type	<input type="checkbox"/>
2. Variable Credit Range:		2. Satisfactory/Unsatisfactory Only	<input type="checkbox"/>	Department	
Minimum Cr. Hrs		3. Repeatable	<input type="checkbox"/>	Instructor	
(Check One) To		Maximum Repeatable Credit:		8. Variable Title	<input type="checkbox"/>
Or		4. Credit by Examination	<input type="checkbox"/>	9. Remedial	<input type="checkbox"/>
Maximum Cr. Hrs.		5. Designator Required	<input type="checkbox"/>	10. Honors	<input type="checkbox"/>
3. Equivalent Credit: Yes	<input type="checkbox"/>	6. Special Fees	<input type="checkbox"/>	11. Full Time Privilege	<input type="checkbox"/>
No	<input checked="" type="checkbox"/>			12. Off Campus Experience	<input type="checkbox"/>
4. Thesis Credit: Yes	<input type="checkbox"/>				
No	<input checked="" 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
Lecture	150	1	15	100	Syn	Live	
Recitation							
Presentation							
Laboratory							
Lab Prep							
Studio							
Distance							
Clinic							
Experiential							
Research							
Ind. Study							
Pract/Observ							

**COURSE DESCRIPTION (INCLUDE REQUISITES):**  
Analyze ethical issues in a highly dynamic technology environment. Learn about legal, management, and moral issues of technology in a global society. Covers the ethical issues associated with the use of technology. Emphasis is on understanding the application of ethics to aspects of industrial and technical environments.  
Prerequisites: Graduate Standing

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
<i>Shirley St/07</i>		<i>Indy Allen</i>	<i>5/9/07</i>		
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum Committee	Date
North Central Department Head	Date	North Central Chancellor	Date	Date Approved by Graduate Council	
West Lafayette Department Head	Date	West Lafayette College/School Dean	Date	Graduate Council Secretary	Date
Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette Registrar	Date

To: Purdue University Graduate Council

From: Faculty Member: Eugenia Fernandez

Department: CIT

Campus: Indianapolis

Date: 04/09/2007

Subject: Proposal for New Graduate Course-Documents Supporting Registrar's Form 40

Contact information if questions arise

Name: Eugenia Fernandez

Phone Number : 317-274-6794

E-mail: efernand@iupui.edu

Course Number: TECH 520

Campus Address: SL 220, IUPUI

Course Title: Technology, Society & Ethics

For Reviewer's comments only

Select One

Reviewer: \_\_\_\_\_

Comments: \_\_\_\_\_

**A. Justification for the Course**

Explain how this course relates to other courses offered in the department or other departments and how this course fulfills a recognized need.

This course is intended primarily for students Choose one: from within this department

**B. Level of the course:**

Justify request for graduate course level by indicating anticipated enrollments of undergraduate and graduate students.

Anticipated Undergraduate Student Enrollment: 10-25%

Anticipated Graduate Student Enrollment: 75-100%

**C. Prerequisites:** (If none, please explain reasons for absence)

**D. Course Instructor:**

Instructor's Name David Williamson

**E1. Course Outline:**

(An outline of topics to be covered and an indication of the relative emphasis or time devoted to each topic is necessary. If laboratory or field experience is involved, the nature of this component should be explained as well).

**E2.**  Method of Evaluation or Assessment:

**F. Reading List:**

A 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.

**New Course Request**

**Indiana University**

IN

Campus

Check Appropriate Boxes:

Undergraduate credit

Graduate credit

Professional credit

1. School/Division School of Engr and Tech 2. Academic Subject Code TECH  
 3. Course Number 520 (must be cleared with University Enrollment Services) 4. Instructor Williamson, D  
 5. Course Title Technology, Society & Ethics  
 Recommended Abbreviation (Optional) Tech Society & Ethics  
 (Limited to 32 Characters including spaces)  
 6. First time this course is to be offered (Semester/Year): Fall 2008  
 7. Credit Hours: Fixed at 3 or Variable from \_\_\_\_\_ to \_\_\_\_\_  
 8. Is this course to be graded S-F (only)? Yes \_\_\_ No X  
 9. Is variable title approval being requested? Yes \_\_\_ No X  
 10. Course description (not to exceed 50 words) for Bulletin publication: \_\_\_\_\_  
Analyze ethical issues in a highly dynamic technology environment. Learn about  
legal, management, and moral issues of technology in a global society. Covers  
the ethical issues associated with the use of technology. Emphasis is on  
understanding the application of ethics to aspects of industrial and technical  
environments.

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: 15 of which \_\_\_ 80% percent are expected to be graduate students.  
 14. Frequency of scheduling: 3 <sup>every</sup> ~~semesters~~ Will this course be required for majors? No  
 15. Justification for new course: This course is an elective for the new M.S. Technology program.  
 16. Are the necessary reading materials currently available in the appropriate library? Yes.  
 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 5/2/07  
 Department Chairman/Division Director

Approved by: [Signature] Date 5/9/07  
 Dean

\_\_\_\_\_  
 Date \_\_\_\_\_  
 Dean of Graduate School (when required)

\_\_\_\_\_  
 Date \_\_\_\_\_  
 Chancellor/Vice-President

\_\_\_\_\_  
 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.

**I. HEADER:**

Course Number: TECH 520  
Title: Technology, Society & Ethics

Instructor: Dr. David M Williamson  
Office: SL 220  
Phone: 274.6798  
Email: davwill@iupui.edu

Prerequisites: Graduate status in the School of Technology

**II. COURSE DESCRIPTION AND RATIONALE:**

***Description***

This course provides participants with an ability to understand and analyze ethical issues in a highly dynamic technology environment. Participants also learn about security, legal, management, and moral issues of technology in a global society. It supports the growing need to sensitize individuals concerning ethical issues associated with the utilization of technology.

The course places emphasis on understanding the application of ethics to aspects of industrial and technical environments.

***Rationale***

This is a required course in the M.S.T. program. Its aim is to provide students with the knowledge and skills to evaluate research articles from industry and technology.

Three modules in this course are also mentioned in CIT's undergraduate Ethics and Leadership course. However, they are covered in more depth than in the undergraduate level course. In addition, students in this course are required to do more rigorous research.

**III. EDUCATIONAL OBJECTIVES:**

Successful students will be able to:

- Gain a heightened ethical awareness as a technology professional
- Develop critical thinking skills concerning ethical analysis
- Refine communication skills concerning ethical analysis

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- Develop responsible social behavior as a technology professional

**IV. COURSE CONTENT:**

Week	Module	Assignment	Source
1	Introduction & Ethical Reasoning	Read entire text listed in source column prior to this class session.	Paul, R. and Elder, L. (2005). The miniature guide to understanding the foundations of ethical reasoning (3 <sup>rd</sup> ed.). Dillon Beach, CA: Foundation for Critical Thinking.
2	Fallacies	Read entire text listed in source column prior to this class session. Assignment 1 Due – Research Proposal – Statement of the Problem Due Second Class Session Have your research proposal ready to submit to instructor at the beginning of the session.	Paul, R. and Elder, L. (2006). The thinker's guide to fallacies: The art of mental trickery and manipulation. Dillon Beach, CA: Foundation for Critical Thinking.
3	Ethical Analysis & Evaluation		??????
4	Codes of Ethics		Codes of Ethics Online Center for the Study of Ethics in the Professions Illinois Institute of Technology – <a href="http://ethics.iit.edu/codes/">http://ethics.iit.edu/codes/</a>
5	Codes of Ethics (continued)	Assignment 2 Due – Milestone 1 – Literature Review Due Fifth Class Session	
6	Moral, Legal, Policy, and Scientific Research		Tavani, H. T. (ed.) (2006). Ethics, computing, and genomics. Sudbury, MA: Jones and Bartlett Publishers. Available on <u>University Library's Books 24x7</u> Section II Chapters 2-5
7	Moral, Legal, Policy, and Scientific Research (continued)		
8	Liability, Safety, and Reliability		??????

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9	Liability, Safety, and Reliability (continued)		
10	Security	Assignment 3 Due - Milestone 2 - Methodology & Bibliography Due Tenth Class Session	Schultz, R. A. (2006). Contemporary issues in ethics and information technology. Hershey, PA: Idea Group Publishing. Available on <u>University Library's Books 24x7</u> Chapter 6
11	Security (continued)		
12	Personal Privacy		Azari, R. (2003). Current security management & ethical issues of information technology. Hershey, PA: Idea Group Publishing. Available on <u>University Library's Books 24x7</u> Chapter 15
13	Personal Privacy (continued)		
14	Ownership and Intellectual Property		Spinello, R. A. (2003). Cyber ethics: Morality and law in cyberspace (2 <sup>nd</sup> ed.). Sudbury, MA: Jones and Bartlett Publishers. Available on <u>University Library's Books 24x7</u> Chapter 4
15	Genomics		Tavani, H. T. (ed.) (2006). Ethics, computing, and genomics. Sudbury, MA: Jones and Bartlett Publishers. Available on <u>University Library's Books 24x7</u> Chapter 1
16	Research Report Due	Assignment 4 Due - Final Report - Completed Research Paper Due Sixteenth Class Session - Electronically	

**V. REQUIRED AND RECOMMENDED TEXTS:**

***REQUIRED MATERIALS:***

## TECH 520 Syllabus

- Paul, R. and Elder, L. (2005). *The miniature guide to understanding the foundations of ethical reasoning* (3rd ed.). Dillon Beach, CA: Foundation for Critical Thinking.
- Paul, R. and Elder, L. (2006). *The thinker's guide to fallacies: The art of mental trickery and manipulation*. Dillon Beach, CA: Foundation for Critical Thinking.
- Wright, M. and Kakalik, J. (2007). *Information security contemporary cases*. Sudbury, MA: Jones and Bartlett Publishers.

### **ADDITIONAL READINGS FROM:**

- Azari, R. (2003). *Current security management & ethical issues of information technology*. Hershey, PA: Idea Group Publishing. Available on University Library's Books 24x7
- Fogg, B. J. (2003). *Persuasive technology: Using computers to change what we think and do*. San Francisco, CA: Morgan Kaufmann Publishers. Available on University Library's Books 24x7
- Schultz, R. A. (2006). *Contemporary issues in ethics and information technology*. Hershey, PA: Idea Group Publishing. Available on University Library's Books 24x7
- Spinello, R. A. (2003). *Cyber ethics: Morality and law in cyberspace* (2nd ed.). Sudbury, MA: Jones and Bartlett Publishers. Available on University Library's Books 24x7
- Tavani, H. T. (ed.) (2006). *Ethics, computing, and genomics*. Sudbury, MA: Jones and Bartlett Publishers. Available on University Library's Books 24x7

## **VI. EVALUATION AND GRADING:**

Your course grade will be based on the following:

<i>Assessment Component</i>	<i>Value</i>
Introduction Assignment	15%
Literature Review Assignment	15%
Methods Assignment	15%
Class Preparation	20%
Oral Presentation & Defense	10%
Written Project Proposal	25%
Total	100%

<b>A Range</b>	<b>4.0</b>	<b>-</b>	<b>3.6</b>
<b>B Range</b>	<b>3.5</b>	<b>-</b>	<b>2.6</b>
<b>C Range</b>	<b>2.5</b>	<b>-</b>	<b>1.6</b>
<b>F Range</b>	<b>1.5</b>	<b>-</b>	<b>0.0</b>

**ETHICS ASSIGNMENTS SCORING RUBRIC:**

The following link will take you to the California Academic Press's Holistic Critical Thinking Rubric page. This rubric will be used to score your ethical writing assignments. You may want to check it out before you begin to work on your assignments. Holistic Critical Thinking Rubric

***Grading Scale (for all assignments)***

- A Represents the highest grade possible and indicates outstanding achievement. This grade is *not* automatically given to the top student performance but instead indicates student work which demonstrates complete mastery of course learning objectives or evinces a level of creativity or originality which far exceeds course expectations. The grade indicates the student works independently and with strong initiative, seeking knowledge outside the normal framework of the course.
- B Represents achievement considerably above expectations. Student performance demonstrates thorough understanding of course learning objectives and a high level of creativity or originality.
- C Student performance meets designated course requirements and demonstrates understanding of the course material and attainment of the course learning objectives. This is the grade that may be expected of a student who puts forth a reasonable amount of time and effort and completes all requirements.
- D This grade denotes substandard work and indicates incomplete and inadequate understanding of the course learning objectives. It indicates work which may not satisfy all requirements.
- F This grade indicates serious deficiency in understanding course learning objectives and failure to complete requirements of the course.

**VII. BIBLIOGRAPHY:**

None

**VIII. CHEATING AND PLAGIARISM:**

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Indiana University has adopted a code that applies, with only minor differences, to students on all Indiana University campuses. The code, which is available in the Office of the Dean of Students and in all school office, spells out what constitutes unacceptable behavior and the procedures to be followed when there are alleged cases of misconduct. The dean of students also has some very brief pamphlets on key areas of the code. What follows is not the code but rather abbreviated and paraphrased statements on key elements of the code: academic and personal misconduct as well as a section on what students should do if they believe that other students, faculty, or staff have violated their rights. The code also explains the procedures employed and how students may appeal decisions. For more information, consult the Code of Student Rights, Responsibilities, and Conduct as well as brochures located in the Office of the Dean of Students.

### Indiana University Purdue University Indianapolis Code of Conduct

Cheating of any kind will be grounds for failure. You are allowed to discuss your assignments with others. However, you are expected to submit your own work for grading. You are expected to create your own assignments independent of others except when directed to work in teams. Do not cheat. The submission of false computer output is also considered to be cheating.

Cheating will not be tolerated. Cheating and/or plagiarism will be immediately punished with a grade of zero for the assignment in question, reported to the Chairman of the Department of Computer and Information Technology and a letter describing the infraction will be placed in your student file. Further disciplinary action will be pursued according to university policy as described in Part III of the Code of Student Rights, Responsibilities, and Conduct (Issued August 15, 1997).

Instructors using software to detect plagiarism are encouraged to investigate whether or not the student's permission is needed.

### ***Turn It In***

All students' work will be reviewed by the software Turn-it-in. This software compares the student work with work which is available across the Internet. Please review the Academic Honesty policies for guideline for the use of web related resources.

**VIII. AMERICANS WITH DISABILITIES ACT:**

If you have a disability and need accommodations, please inform your instructor privately as soon as possible. Students with disabilities seeking academic accommodations should contact Adaptive Educational Services at (317)-274-3241. The office is located in CA 001E.

**IX. CAVEAT:**

The procedures and schedule for this course are subject to change, with notice in writing or orally in class, depending on the pace of the class or in the event of extenuating circumstances.

**From:** Lindsey, Greg H.  
**Sent:** Thursday, August 30, 2007 12:59 PM  
**To:** Fernandez, Eugenia  
**Subject:** course proposals  
Dear Eugenia,

Thank you for meeting with me today and explaining that the courses you are proposing are existing courses on the West Lafayette Campus and that your proposal is to extend them so they can be offered here. Also, I appreciate your explanation that the courses focus on technology and that you are willing to collaborate with SPEA on curricular issues.

SPEA IUPUI is supportive of the action to offer the following three courses at IUPUI:

- OLS 580 Interpersonal Skills for Leaders;
- OLS 581 Leadership and Ethics; and
- Tech 520 Technology, Society, and Ethics.

Greg

Greg Lindsey  
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