

**New Course Request**

**Indiana University**

Indianapolis

Campus

Check Appropriate Boxes:

Undergraduate credit

Graduate credit

Professional credit

1. School/Division School of Engineering and Technology 2. Academic Subject Code CIT

3. Course Number 485 (must be cleared with University Enrollment Services) 4. Instructor Justice

5. Course Title The Living Lab

Recommended Abbreviation (Optional) Living Lab

(Limited to 32 Characters including spaces)

6. First time this course is to be offered (Semester/Year): Spring 2009

7. Credit Hours: Fixed at \_\_\_\_\_ or Variable from 1 to 6

8. Is this course to be graded S-F (only)? Yes \_\_\_\_\_ No

9. Is variable title approval being requested? Yes  No

10. Course description (not to exceed 50 words) for Bulletin publication: P: Consent of instructor.

The Living Lab allows students to apply networking, security, database, website, and application development concepts and techniques learned from prior CIT courses to internal and/or external projects. The Living Lab emulates an industry IT department in which students work on one or more projects as part of an IT team

11. Lecture Contact Hours: Fixed at 0 or Variable from \_\_\_\_\_ to \_\_\_\_\_

12. Non-Lecture Contact Hours: Fixed at \_\_\_\_\_ or Variable from 3 to 15

13. Estimated enrollment: 15 of which 0 percent are expected to be graduate students.

14. Frequency of scheduling: each semester Will this course be required for majors? Yes

15. Justification for new course: To serve as the beginning of an experiential pipeline in which students apply their knowledge and develop their IT skills

16. Are the necessary reading materials currently available in the appropriate library? N/A

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 5/27/08  
Department Chairman/Division Director

Approved by:

[Signature] Date 5/27/08  
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.

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

DEPARTMENT Computer and Information Technology

EFFECTIVE SESSION Spring 2009

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

- |   |   |
|---|---|
| <input checked="" 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 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 (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:

TERMS OFFERED

Check All That Apply:

Subject Abbreviation CIT

Subject Abbreviation

Summer  Fall  Spring

Course Number 485

Course Number

CAMPUS(ES) INVOLVED

Long Title The Living Lab

- |  |   |
|--|---|
| <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 type="checkbox"/> W. Lafayette   |
| <input checked="" type="checkbox"/> Indianapolis |   |

Short Title Living Lab

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

CREDIT TYPE

COURSE ATTRIBUTES: Check All That Apply

1. Fixed Credit: Cr. Hrs.
2. Variable Credit Range:
- Minimum Cr. Hrs
- (Check One) To  Or
- Maximum Cr. Hrs.
3. Equivalent Credit: Yes  No
4. Thesis Credit: Yes  No

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
- Maximum Repeatable Credit:
4. Credit by Examination
5. Designator Required
6. Special Fees

7. Registration Approval Type  
Department  Instructor
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

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)
Lecture						
Recitation						
Presentation						
Laboratory						
Lab Prep						
Studio						
Distance						
Clinic						
Experiential	150	1	16			
Research						
Ind. Study						
Pract/Observ						

Cross-Listed Courses

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COURSE DESCRIPTION (INCLUDE REQUISITES):

P: Consent of Instructor. The Living Lab allows students to apply networking, security, database, website, and application development concepts and techniques learned from prior CIT courses to internal and/or external projects. The Living Lab emulates an industry IT department in which students work on one or more projects as part of an IT team.

Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____
<i>Percy</i> 5/13/08 Indianapolis Department Head _____ Date _____	<i>William Paul</i> 5/27/08 Indianapolis School Dean _____ Date _____
North Central Department Head _____ Date _____	North Central Chancellor _____ Date _____
West Lafayette Department Head _____ Date _____	West Lafayette College/School Dean _____ Date _____
	West Lafayette Registrar _____ Date _____

## **CIT 485 The Living Lab**

**Instructor:** Connie Justice: cjustice@iupui.edu

**Office Hours:** By appointment

**Course Meetings:** REQUIRED and will be conducted weekly

### **Course Description**

The Living Lab allows students to apply networking, security, database, website, and application development concepts and techniques learned from prior CIT courses to internal and/or external projects. The Living Lab emulates an industry IT department in which students work on one or more projects as part of an IT team.

### **Prerequisite:**

CIT 307 or (CIT 213 and 200 level CIT programming language) or consent of instructor

### **Course Objectives:**

By the end of this course, students will have:

- Reinforced various IT skills
- Designed and implemented projects to meet client specifications
- Consistently met project deadlines on time.
- Developed project management skills.
- Developed client management skills.
- Developed project presentation skills.

### **ABET IT Outcomes**

### **General Course Information:**

**Project Assignment:** The reality of these projects is that they will come in different shapes and sizes and degrees of difficulty. The more difficult projects will be weighted more heavily to balance out the load for each student. This is a rather unique component to this class. The instructor reserves the right to adjust project loads to produce desired results.

**Completing Course Requirements:** A minimum of 40 hours of approved project work per credit hour is required to complete the course.

**Assignments:** All assignments will be project related. Each student will work on one to many projects during the course of the semester. Students may work either on teams or individually and will have some choice as to the project they work on. Some assignments/projects will be given directly by the instructor.

**Meeting:** There will be mandatory project meetings each week. Physical attendance is required. These meetings will be used to report on project status, address issues and concerns, and to share project deliverables with the class.

**Project presentations will be given at the end of the project. You will be required to present using PowerPoint or other visual aid approved by instructor.**

**Status Reports:** All status reports should be submitted electronically using OnCourse weekly before the meeting.

**Journals:** Each student is responsible to keep a journal and turn it in at the completion of the course.

**Project Work Report Guidelines:** Each student will submit a project work report.

**Poster:** Each student will present a poster at the end of the semester.

**Required Materials:**

Required Textbook: None

Required Software: Software requirements will be based on the nature of the project. It will be up to the individual student to acquire the necessary software and/or hardware needed to complete their particular project.

**Microsoft Project:** This will be our primary means to keep track of all project assignments and tasks. Project leaders are responsible for

setting the initial tasks for the project and get them approved by the instructor.

**Grading:**

**CIT 490** is graded on A – F scale. Hopefully the opportunity for experience will provide enough motivation for all students to do well. Qualitative measures include the timeliness and the quality of your work. Your client's satisfaction is the number one criteria for success in the real world and in this course. **If you think you are in danger of not passing this course you will need to talk to the instructor as it is your responsibility to complete the work required.**

**Late Assignments:**

Students that are consistently late with deliverables and status reports will jeopardize passing the course.

# PURDUE SCHOOL OF ENGINEERING & TECHNOLOGY COURSE OUTCOMES AND ASSESSMENT DATA SHEET

This is an internal document to identify and record expected outcomes and anticipated assessment strategies for all courses taught within the School of Engineering and Technology. Submission of this form, as noted below, is required and must accompany all new course and course change requests. Copies of this form should also be retained within the department and kept on file with the outline or syllabus for each course.

Course Number: CE 485 Course Title: The Living Lab

### Procedure:

1. First, identify all instructional outcomes expected for this course, and then select all ABET outcomes which are consistent with those anticipated objectives from TABLE 1 below.

TABLE 1 ABET OUTCOMES

#	TECHNOLOGY TAC Criteria #1 (Proposed)
1	Demonstrate an appropriate mastery of the knowledge, techniques, skills and modern tools of their discipline.
2	Apply current knowledge and adapt to emerging applications in mathematics, science, engineering and technology.
3	Conduct, analyze and interpret experiments and apply experimental results to improve processes.
4	Apply creativity in the design of systems, components or processes appropriate to program objectives.
5	Function effectively on teams.
6	Identify, analyze and solve technical problems.
7	Communicate effectively.
8	Recognize the need for and possess the ability to pursue lifelong learning.
9	Understand professional, ethical and societal responsibilities.
10	Recognize contemporary professional, societal and global issues and be aware of and respect diversity.
11	Have a commitment to quality, timeliness and continuous improvement.

2. Subsets for each of the six IUPUI Principles of Undergraduate Learning (PUL) are given on the reverse side in TABLE 2. Using a number corresponding to each ABET outcome identified from TABLE 1 above to select a column, place a "√" or "X" mark in the applicable TABLE 2 row(s) cell for each PUL. Courses will often address multiple ABET outcomes and ABET outcomes frequently will overlap more than one PUL subset. Thus, it is expected completed data sheets may contain marks in several cells thereby indicating the course simultaneously satisfies multiple Principles of Undergraduate Learning while fulfilling its intended ABET objective(s).

3. After completing TABLE 2, briefly define or explain how the course outcomes or objectives will be evaluated within the context of the departmental assessment program in the space below:

weekly status reports, project report, presentation

Submitted by: Connie Justice

Date: 4/22/08

## TABLE 2 - MATRIX OF EXPECTED COURSE OUTCOMES

(Suggestion - while completing Table 2, place a copy of the ABET outcomes from Table 1 along side for easy cross referencing.)

PRINCIPLES OF UNDERGRADUATE LEARNING <i>"Require All Students to Demonstrate An Ability to:"</i>	TECHNOLOGY OUTCOMES - TAC CRITERIA #1: items (a) to (k)										
	a	b	c	d	e	f	g	h	i	j	k
1(a) - Express ideas and facts effectively in written formats											
1(b) - Comprehend, interpret, and analyze texts											
1(c) - Communicate orally in one-on-one and group settings					X						
1(d) - Solve problems that are quantitative in nature						X					
1(e) - Make efficient use of information resources and technology for personal and professional needs											
2(a) - Analyze complex issues and make informed decisions						X					
2(b) - Synthesize information in order to arrive at reasoned conclusions						X					
2(c) - Evaluate the logic, validity, and relevance of data						X					
2(d) - Solve challenging problems						X					
2(e) - Use knowledge and understanding to generate and explore new questions											
3(a) - Apply knowledge to enhance personal lives					X	X					
3(b) - Apply knowledge to meet professional standards and competencies					X						
3(c) - Apply knowledge to further the goals of society					X	X					
4(a) - Demonstrate substantial knowledge and understanding of at least one field of study											
4(b) - Compare and contrast approaches to knowledge in different disciplines				X							
4(c) - Modify their approach to an issue or problem based on the contexts and requirements of particular situations					X	X					
5(a) - Compare and contrast the range of diversity and universality in human history, societies and ways of life											
5(b) - Analyze and understand the interconnectedness of global and local concerns											
5(c) - Operate with civility in a complex social world					X				X		
6(a) - Make informed and principled choices regarding conflicting situations in their personal and public lives and to foresee the consequences of these choices									X		
6(b) - Recognize the importance of aesthetics in their personal lives and to society											