New Course Request

Indiana University

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

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

7. Credit Hours: Fixed at ________ or Variable from ________ to ________

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 1 or more projects as part of an IT team.

11. Lecture Contact Hours: Fixed at ________ or Variable from ________ to ________

12. Non-Lecture Contact Hours: Fixed at ________ or Variable from ________ to ________

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

14. Frequency of scheduling: each semester

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

Dean of Graduate School (when required)

Approved by: [Signature] Date 5/27/08

Dean

Chancellor/Vice-President

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.

UPS 724 University Enrollment Services Final—White; Chancellor/Vice-President—Blue; School/Division—Yellow; Department/Division—Pink; University Enrollment Services Advance—White
**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.

- [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:**

<table>
<thead>
<tr>
<th>Subject Abbreviation CIT</th>
<th>Subject Abbreviation</th>
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<table>
<thead>
<tr>
<th>Course Number</th>
<th>485</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Title</td>
<td>The Living Lab</td>
</tr>
<tr>
<td>Short Title</td>
<td>Living Lab</td>
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</tbody>
</table>

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

**TERMS OFFERED**

- [x] Summer
- [x] Fall
- [x] Spring

**CAMPUS(ES) INVOLVED**

- Calumet
- Cont Ed
- Ft. Wayne
- Indianapolis
- N. Central
- Tech Statewide
- W. Lafayette

**CREDIT TYPE**

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

**COURSE ATTRIBUTES:**

- [x] 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 [x] Instructor
- [ ] 8. Variable Title
- [ ] 9. Remedial
- [ ] 10. Honors
- [ ] 11. Full Time Privilege
- [ ] 12. Off Campus Experience

**INSTRUCTIONAL TYPE**

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Minutes Per Mtg</th>
<th>Meetings Per Week</th>
<th>Weeks Offered</th>
<th>% of Credit Allocated</th>
<th>Delivery Method (Asyn. Or Syn.)</th>
<th>Delivery Medium (Audio, Internet, Live, Text-Based, Video)</th>
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</thead>
<tbody>
<tr>
<td>Lab</td>
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<tr>
<td>Studio</td>
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<td>Clinic</td>
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<td>Exp. Lab</td>
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<td>Research</td>
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<tr>
<td>Ind. Study</td>
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<tr>
<td>Pract/Observ</td>
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</tr>
</tbody>
</table>

**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.

**Signature and Date**

- 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: ____________
- West Lafayette Registrar: ____________________ Date: ____________

**OFFICE OF THE REGISTRAR**
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: CTE485 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>
<thead>
<tr>
<th>#</th>
<th>TECHNOLOGY 1-Criteria #1 (Proposed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Demonstrate an appropriate mastery of the knowledge, techniques, skills and modern tools of their discipline</td>
</tr>
<tr>
<td>2</td>
<td>Apply current knowledge and adapt to emerging applications in mathematics, science, engineering and technology</td>
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<tr>
<td>3</td>
<td>Conduct, analyze and interpret experiments and apply experimental results to improve processes</td>
</tr>
<tr>
<td>4</td>
<td>Apply creativity in the design of systems, components or processes appropriate to program objectives</td>
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<tr>
<td>6</td>
<td>Function effectively on teams</td>
</tr>
<tr>
<td>0</td>
<td>Identify, analyze and solve technical problems</td>
</tr>
<tr>
<td>0</td>
<td>Communicate effectively</td>
</tr>
<tr>
<td>8</td>
<td>Recognize the need for and possess the ability to pursue lifelong learning</td>
</tr>
<tr>
<td>0</td>
<td>Understand professional, ethical, and societal responsibilities</td>
</tr>
<tr>
<td>0</td>
<td>Recognize contemporary professional, societal and global issues and be aware of and respect diversity</td>
</tr>
<tr>
<td>0</td>
<td>Have a commitment to quality, timeliness and continuous improvement</td>
</tr>
</tbody>
</table>

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 only 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 Slaba Date: 1/22/06
<table>
<thead>
<tr>
<th>PRINCIPLES OF UNDERGRADUATE LEARNING Required All Students to Demonstrate</th>
<th>TECHNOLOGY OUTCOMES</th>
<th>TAC CRITERIA #1: Items (a) to (k)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a) Express ideas and facts effectively in written formats</td>
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<tr>
<td>1b) Comprehend, interpret, and analyze texts</td>
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<td>1c) Communicate orally in one-on-one and group settings</td>
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<td>1d) Solve problems that are quantifiable in nature</td>
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<tr>
<td>1e) Make efficient use of information resources and technology for personal and professional needs</td>
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<tr>
<td>2a) Analyze complex issues and make informed decisions</td>
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<td>2b) Synthesize information in order to arrive at reasoned conclusions</td>
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<tr>
<td>2c) Evaluate the logic, validity, and relevance of data</td>
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<td>2d) Solve challenging problems</td>
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<tr>
<td>2e) Use knowledge and understanding to generate and explore new questions</td>
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<tr>
<td>3a) Apply knowledge to enhance personal lives</td>
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<tr>
<td>3b) Apply knowledge to meet professional standards and competencies</td>
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<tr>
<td>3c) Apply knowledge to further the goals of society</td>
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<tr>
<td>4a) Demonstrate substantial knowledge and understanding of at least one field of study</td>
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<tr>
<td>4b) Compare and contrast approaches to knowledge in different disciplines</td>
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<tr>
<td>4c) Modify their approach to an issue or problem based on the context and requirements of particular situations</td>
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<tr>
<td>5a) Compare and contrast the range of diversity and universality in human history, societies, and ways of life</td>
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<tr>
<td>5b) Analyze and understand the interconnectedness of global and local concerns</td>
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<tr>
<td>5c) Operate with civility in a complex social world</td>
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<tr>
<td>6a) Make informed and principled choices regarding conflicting situations in their personal and public lives and to foresee the consequences of these choices</td>
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<tr>
<td>6b) Recognize the importance of aesthetics in their personal lives and to society</td>
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