Course Change Request

Indiana University

IUPUI Campus

Check Appropriate Boxes: Undergraduate credit ☑ Graduate credit □ Professional credit □

1. School/Division  School of Engineering and Technology
2. Academic Subject Code  CIT
3. Current Course Number  262
4. Current Credit Hours  3
5. Current Title  Problem Solving and Programming
6. Effective Semester/Year for changes listed below: Spring 2008

Type of Change Requested (Check appropriate boxes and indicate changes)

☑ 8. Change course number to: ____________________________ (must be cleared with University Enrollment Services)

☐ 9. Current course title: ________________________________

   Change to: ________________________________________
   Recommended abbreviation (optional) ____________________

   (Limited to 32 Characters including spaces)

☐ 10. Current credit hours fixed at: __________ or variable from: __________ to __________

   Change to credit hours fixed at: __________ or variable from: __________ to __________

☐ 11. Current lecture contact hours fixed at: __________ or variable from: __________ to __________

   Change to lecture contact hours fixed at: __________ or variable from: __________ to __________

☐ 12. Current non-lecture contact hours fixed at: __________ or variable from: __________ to __________

   Change to non-lecture contact hours fixed at: __________ or variable from: __________ to __________

☐ 13. Is this course currently graded with S-F (only) grades? Yes ___ No ___

   Change to S-F (only) grading? Yes ___ No ___

☐ 14. Does this course presently have variable title approval? Yes ___ No ___

   Is variable title approval being requested? Yes ___ No ___

☐ 15. Is this course being discontinued? For all campuses _____ or for this campus only _____

☑ 16. Current course description  P: 112 or 115 and 140. An introduction to object-oriented programming, with

   emphasis on object design, construction, use, modification, and reuse.

   Change course description to (not to exceed 50 words)  P: CIT 140. An introduction to object-oriented

   programming, with emphasis on object design, construction, use, modification, and reuse.

17. Justification for change  Realignment of prerequisites for other technology majors.

   (Use additional paper if necessary)

☐ 18. Are the necessary reading materials currently available in the appropriate library? Yes ___

19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be

   overlap of this 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 2/15/08

Department Chairman/Division Director

Dean of Graduate School (when required)

Approved by:

[Signature]  Date 3/16/08

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 725  University Enrollment Services Final—White, Chancellor/Vice-President—Blue, School/Division—Yellow;

Department/Division—Pink; University Enrollment Services Advance—White
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: 262  Course Title: Problem Solving & Programming

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 - TAC Criteria #1 (Proposed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>Demonstrate an appropriate mastery of the knowledge, techniques, skills and modern tools of their discipline.</td>
</tr>
<tr>
<td>2b</td>
<td>Apply current knowledge and adapt to emerging applications in mathematics, science, engineering and technology.</td>
</tr>
<tr>
<td>3c</td>
<td>Conduct, analyze and interpret experiments and apply experimental results to improve processes.</td>
</tr>
<tr>
<td>4d</td>
<td>Apply creativity in the design of systems, components or processes appropriate to program objectives.</td>
</tr>
<tr>
<td>5e</td>
<td>Function effectively on teams.</td>
</tr>
<tr>
<td>6f</td>
<td>Identify, analyze and solve technical problems.</td>
</tr>
<tr>
<td>7</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>9</td>
<td>Understand professional, ethical and societal responsibilities.</td>
</tr>
<tr>
<td>10</td>
<td>Recognize contemporary professional, societal and global issues and be aware of and respect diversity.</td>
</tr>
<tr>
<td>11</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 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:

Quizzes, Homework assignments: Programming Projects

Submitted by: [Signature]  Date: 2/7/08
| PRINCIPLES OF UNDERGRADUATE LEARNING - "Require All Students to Demonstrate An Ability to:"
| TECHNOLOGY OUTCOMES - TAC CRITERIA #1: items (a) to (k) |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1(a) - Express ideas and facts effectively in written formats | **a** | **b** | **c** | **d** | **e** | **f** | **g** | **h** | **i** | **j** | **k** |
| 1(b) - Comprehend, interpret, and analyze texts | | | | | | | | | | | | |
| 1(c) - Communicate orally in one-on-one and group settings | | | | | | | | | | | | |
| 1(d) - Solve problems that are quantitative in nature | | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| 2(c) - Evaluate the logic, validity, and relevance of data | X | | | | | | | | | | |
| 2(d) - Solve challenging problems | X | X | | | | | | | | | |
| 2(e) - Use knowledge and understanding to generate and explore new questions | | | | | | | | | | | |
| 3(a) - Apply knowledge to enhance personal lives | | | | | | | | | | | |
| 3(b) - Apply knowledge to meet professional standards and competencies | | | | | | | | | | | |
| 3(c) - Apply knowledge to further the goals of society | X | | | | | | | | | | |
| 4(a) - Demonstrate substantial knowledge and understanding of at least one field of study | X | X | | | | | | | | | |
| 4(b) - Compare and contrast approaches to knowledge in different disciplines | | | | | | | | | | | |
| 4(c) - Modify their approach to an issue or problem based on the contexts and requirements of particular situations | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| 6(a) - Make informed and principles choices regarding conflicting situations in their personal and public lives and to foresee the consequences of these choices | | | | | | | | | | | |
| 6(b) - Recognize the importance of aesthetics in their personal lives and to society | | | | | | | | | | | |
PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(100-400 LEVEL)

DEPARTMENT: Computer and Information Technology  EFFECTIVE SESSION: Spring 2008

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: CIT
Course Number: 262
Long Title:
Short Title:

EXISTING:

Subject Abbreviation: CIT
Course Number: 262
Long Title:
Short Title:

TERMS OFFERED:

Check All That Apply:

- Summer
- Fall
- Spring

CAMPUS(ES) INVOLVED:

- Calumet
- Fort Wayne
- Indianapolis
- W. Lafayette

ABBREVIATED TITLE WILL BE ENTERED BY THE OFFICE OF THE REGISTRAR IF OMITTED. (22 CHARACTERS ONLY)

CREDIT TYPE

1. Fixed Credit: Cr. Hrs.:
2. Variable Credit Range:
   Minimum Cr. Hrs.:
   Maximum Cr. Hrs.:

3. Equivalent Credit:
4. Thesis Credit:

COURSE ATTRIBUTES:

1. Pass/No Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Credit by Examination
5. Designator Required
6. Special Fees

INSTRUCTIONAL TYPE

- Lecture
- Recitation
- Laboratory
- Studio
- Distance
- Clinic
- Clin Experiential
- Research
- Inst. Study
- Pract/Observe

COURSE DESCRIPTION INCLUDE REQUIREMENTS:

P: CIT 140. An introduction to object-oriented programming, with emphasis on object design, construction, use, modification, and reuse.

Calumet Department Head:
Calumet School Dean:

Fort Wayne Department Head:
Fort Wayne School Dean:

Indianapolis Department Head:
Indianapolis School Dean:

North Central Department Head:
North Central Chancellor:

West Lafayette Department Head:
West Lafayette College/School Dean:

OFFICE OF THE REGISTRAR