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

**DEPARTMENT:** EPICS  
**EFFECTIVE SESSION:** Spring 2010

**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:**

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>EPCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>10100</td>
</tr>
<tr>
<td>Long Title</td>
<td>Freshman Participation in EPICS</td>
</tr>
<tr>
<td>Short Title</td>
<td>Abbreviated title will be entered by the Office of the Registrar if omitted (20 CHARACTERS ONLY)</td>
</tr>
</tbody>
</table>

**EXISTING:**

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>EPCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>10100</td>
</tr>
</tbody>
</table>

**TERMS OFFERED**

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

**CAMPUS(ES) INVOLVED**

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

**CREDIT TYPE**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credit Type</th>
<th>Course Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fixed Credit</td>
<td>6 Registration Approval Type</td>
</tr>
<tr>
<td></td>
<td>Variable Credit Range</td>
<td>7 Variable Title</td>
</tr>
</tbody>
</table>

**COURSE ATTRIBUTES:**

- [ ] 1. Pass/Not Pass Only
- [ ] 2. Satisfactory/Unsatisfactory Only
- [ ] 3. Repeatable
- [ ] 4. Credit by Examination
- [ ] 5. Special Fees
- [ ] 6. Hours
- [ ] 7. Full Time Privilege
- [ ] 8. Off Campus Experience

**SCHEDULE TYPE**

<table>
<thead>
<tr>
<th>Schedule Type</th>
<th>Minutes Per Credit</th>
<th>Meetings Per Week</th>
<th>Weeks Offered</th>
<th>% of Credit Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td></td>
<td>1</td>
<td></td>
<td>33%</td>
</tr>
<tr>
<td>Recitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presentation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td></td>
<td>100</td>
<td>15</td>
<td>67%</td>
</tr>
<tr>
<td>Lab Prep</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Studio</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinic</td>
<td></td>
<td></td>
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<tr>
<td>Seminar</td>
<td></td>
<td></td>
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<tr>
<td>Research</td>
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<tr>
<td>Ind. Study</td>
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<td></td>
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<tr>
<td>Pract/Observ</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**

See Attached

This change is to allow Purdue Columbus site this course offering.

**COURSE LEARNING OUTCOMES**

See Attached

**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 School Dean**

Date

**North Central VES Chancellor for Academic Affairs**

Date

**Lafayette Department Head**

Date

**West Lafayette College School Dean**

Date

**West Lafayette Registrar**

Date

**OFFICE OF THE REGISTRAR**
TO: The Engineering Faculty
FROM: The EPICS Curriculum Committee
RE: New EPICS Course Numbers

The EPICS Curriculum Committee has approved the following new course number. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**EPCS 101 FRESHMAN PARTICIPATION IN EPICS**

Offered Fall and Spring, Summer by special arrangement. Credit 1.
Prerequisite: Second semester freshman standing or permission of instructor.

*Course Description:* Together, Engineering Projects in Community Service (EPICS) courses (EPCS 101, EPCS 201, EPCS 301, EPCS 302, EPCS 401, and EPCS 402) create a vertical project track under which students work in multidisciplinary teams on long-term engineering-based design projects. Projects of at least one-year in duration are intended to solve real problems that are defined in consultation with "customers" from not-for-profit community and education organizations. EPICS courses are open to students from all disciplines; each student contributes expertise in his/her academic discipline. Each team consists of a mix of freshmen, sophomores, juniors, and seniors. Students are encouraged to participate in an EPICS project team for two or more semesters via enrollment in EPCS 101 while a freshman, EPCS 201 while a sophomore, EPCS 301/302 while a junior, and EPCS 401/402 while a senior. Freshman participating in EPCS 101 gain insight into the specific project, and more generally, into the design and development process. They attend planning and reporting meetings with the customer and are expected to attend all team meetings. Under the mentorship of the team’s juniors and seniors they perform and report upon tasks consistent with their level of discipline expertise. May be repeated for credit.

**REASON:**

The Engineering Projects in Community Service (EPICS) courses are currently offered under 18 different course numbers within 9 different disciplines. The new course numbers aim to reflect the multidisciplinary nature of the course while also easing the registration difficulties of multiple, co-listed course numbers. Each participating department/school would determine how their students’ credits in EPICS count toward graduation requirements.

**Normally Offered:** Each Fall, Spring. Offered Summer by special arrangement.

Recommended Reference(s): None.

Course Outcomes:

A student who successfully fulfills the course requirements with at least 3 credits of EPICS taken over 2 or more semesters will have demonstrated:

i. an ability to apply material from their discipline to the design of community-based projects
ii. an understanding of design as a start-to-finish process
iii. an ability to identify and acquire new knowledge as a part of the problem-solving/design process
iv. an awareness of the customer
v. an ability to function on multidisciplinary teams and an appreciation for the contributions from individuals from multiple disciplines
vi. an ability to communicate effectively with audiences with widely-varying backgrounds
vii. an awareness of professional ethics and responsibility
viii. an appreciation of the role that their discipline can play in social contexts

Lecture Outline:

Weeks   Lectures

1-15   All EPICS students have a common lecture hour. Lecture topics include the design process, verbal and written communication, project management and planning, ethical and legal issues in engineering design, entrepreneurship, intellectual property, team dynamics and leadership and community involvement. Lectures are supplemented with sessions on specific technical topics relevant to the projects.

Lab Outline:

Week   Major Course Milestones
2   Semester Project Plan
3   Personal Semester Goals
    Project Charters (new projects); Project Demonstration (continuing projects); Review of Design Notebooks; Delivery Review of Projects to be Delivered Week 4.
4   5 - 6   Continued Progress on Projects and Project Documentation.
7   7   Internal Design Review; oral or poster presentation
8   8   Peer evaluation and self assessment; Review of Design Notebooks.
9 - 10   9 - 10   Continued Progress on Projects and Project Documentation
11   11   Project Design Review; Delivery Review of Projects to be Delivered Week

15 Team Report; Review of Design Notebooks; Peer evaluation and self assessment

Final Team Presentation
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9. Change in course description
10. Change in course requisites
11. Change in semesters offered

PROPOSED:
- Subject Abbreviation: EPICS
- Course Number: 101
- Long Title: Freshman Participation in EPICS
- Short Title: Fresh Part in EPICS

EXISTING:

CREDIT TYPE
1. Fixed Credit: Cr. Hrs.
2. Variable Credit Range:
   Minimum Cr. Hrs. [ ]
   Maximum Cr. Hrs. [ ]
3. Equivalent Credit: Yes [ ] No [ ]
4. Thesis Credit: Yes [ ] No [ ]

COURSE ATTRIBUTES: Check All That Apply
1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
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 [ ]

COURSE DESCRIPTION (INCLUDE REQUISITES):
Please see attached.

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OFFICE OF THE REGISTRAR

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