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:
Subject Abbreviation: EPICS
Course Number: 20100
Long Title: Sophomore Participation in EPICS

EXISTING:
Subject Abbreviation: EPICS
Course Number: 20100
Long Title: Sophomore Participation in EPICS

TERMS OFFERED:
Check All That Apply:
- Summer
- Fall
- Spring

CAMPUS(ES) INVOLVED:
- Calumet
- Cont Ed
- Pl. Wayne
- Indianapolis

- N. Central
- Tech Statewide
- W. Lafayette

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

<table>
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<tr>
<th>CREDIT TYPE</th>
<th>COURSE ATTRIBUTES: Check All That Apply</th>
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<tbody>
<tr>
<td></td>
<td>1. Pass/No Pass Only</td>
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<td>2. Satisfactory/ Unsatisfactory Only</td>
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<td>3. Repeatability</td>
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<td>4. Credit by Examination</td>
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<td>5. Special Fees</td>
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<td>6. Registration Approval Type</td>
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<td>7. Variable Title</td>
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<td>8. Honors</td>
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<td>9. Full Time Privilege</td>
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<td>10. Off Campus Experience</td>
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Schedule Type: Lecture
Minutes Per Wk: 0
Meetings Per Week: 1

Weeks Offered: 5
% of Credit: 33%

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 Vice Chancellor for Academic Affairs: Date

West Lafayette Department Head: Date
West Lafayette College 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 201 SOPHOMORE PARTICIPATION IN EPICS
Offered Fall and Spring, Summer by special arrangement. Credit 1.
Prerequisite: Sophomore standing.

Course Description: Continuation of EPCS courses (see EPCS 101). Sophomores participating in EPCS 201 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 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
4 Project Charters (new projects); Project Demonstration (continuing projects); Review of Design Notebooks; Delivery Review of Projects to be Delivered Week 4.
5 - 6 Continued Progress on Projects and Project Documentation.
7 Internal Design Review; oral or poster presentation
8 Peer evaluation and self assessment; Review of Design Notebooks.
9 - 10 Continued Progress on Projects and Project Documentation
11 Project Design Review; Delivery Review of Projects to be Delivered Week 11.
12 - 14 Continued Progress on Projects and Project Documentation.
15 Team Report; Review of Design Notebooks; Peer evaluation and self assessment

Final Team Presentation