## PURDUE UNIVERSITY

REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE (10000-40000 LEVEL) 37-04

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Fase Cost Cr. Hs.				COURSE ATTRIBUTES: 0	Check All That Apply	
Cross-Listed Courses	(Check One) To		1. Pass/Not Pass Only 2. Satisfactory/Unsatisfactory Only 3. Repeatable Maximum Repeatable 6 4. Credit by Examination	6 Registration / Dep 7 Variable Title 8 Honors 9 Full Time Priv	Approval Type artment Instruc	etor
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## **PURDUE UNIVERSITY**

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

DEPARTMENT EPICS EFFECTIVE SESSION Spring 2010
STRUCTIONS: Please check the items below which describe the purpose of this request.
□       1. New course with supporting documents       □       7. Change in course attributes (department head signature only)         □       2. Add existing course offered at another campus       □       8. Change in instructional hours         □       3. Expiration of a course       □       9. Change in course description         □       4. Change in course number       □       10. Change in course requisites         □       5. Change in course title       □       11. Change in semesters offered (department head signature only)         □       6. Change in course credit/type       □       12. Transfer from one department to another
PROPOSED: EXISTING: TERMS OFFERED
Subject Abbreviation EPCS Subject Abbreviation Subject Abbreviation EPCS Check All That Apply:  Summer
Course Number         40200         CAMPUS(ES) INVOLVED           ☐ Calumet         N. Central
Long Title Senior Participation in EPICS Cont Ed Tech Statewide W. Lafayette
Short Title Indianapolis
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COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):  See Attached
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est Lafayette Department Head Date West Lafayette College/School Dean Date West Lafayette Registrar Date

TO:

The Engineering Faculty

FROM:

The EPICS Curriculum Committee

RE:

New EPCS 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 402 SENIOR PARTICIPATION IN EPICS**

Offered Fall and Spring, Summer by special arrangement. Credit 2. Prerequisite: Senior standing.

Course Description: Continuation of EPCS courses (see EPCS 101). Seniors are responsible for the management tasks of planning and organizing their team project activity. They are expected to contribute expertise from their discipline to the design of the team's projects throughout most of the design process phases of problem identification, specification development, design, production, and deployment. Seniors will also meet with the customer and mentor the freshman, sophomores and juniors. Seniors using EPCS 401/402 to fulfill capstone or design requirements where approved for their major may be required to satisfy additional course requirements specified by their degree program. EPCS 402 is offered for 2 credits. The EPICS procedures manual provides information on expected relative workload for EPCS 401 and EPCS 402 students. May be repeated for credit. May not be taken concurrently with EPCS 401.

#### **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.

**Required Text(s):** <u>Service-Learning: Engineering in Your Community</u>, Marybeth Lima and William Oakes, Great Lakes Press, 2004.

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 problemsolving/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

Office of the Registrar FORM 40 REV. 12/03

# PURDUE UNIVERSITY REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF A COURSE

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