

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

33-09

DEPARTMENT EPICS EFFECTIVE SESSION Spring 2010

***INSTRUCTIONS:** Please check the items below which describe the purpose of this request.

- | | |
|--|---|
| <input type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes (department head signature only) |
| <input checked="" type="checkbox"/> 2. Add existing course offered at another campus | <input type="checkbox"/> 8. Change in instructional hours |
| <input type="checkbox"/> 3. Expiration of a course | <input type="checkbox"/> 9. Change in course description |
| <input type="checkbox"/> 4. Change in course number | <input type="checkbox"/> 10. Change in course requisites |
| <input type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED:		EXISTING:		TERMS OFFERED Check All That Apply:		
Subject Abbreviation	<u>EPCS</u>	Subject Abbreviation	<u>EPCS</u>	<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
Course Number	<u>20100</u>	Course Number	<u>20100</u>	CAMPUS(ES) INVOLVED		
Long Title	<u>Sophomore Participation in EPICS</u>			<input type="checkbox"/> Calumet	<input type="checkbox"/> N. Central	
Short Title				<input type="checkbox"/> Cont Ed	<input checked="" type="checkbox"/> Tech Statewide	
Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)				<input type="checkbox"/> Ft. Wayne	<input type="checkbox"/> W. Lafayette	
				<input type="checkbox"/> Indianapolis		

CREDIT TYPE		COURSE ATTRIBUTES: Check All That Apply			
1. Fixed Credit: Cr. Hrs.	<u>1</u>	1. Pass/Not Pass Only	<input type="checkbox"/>	6 Registration Approval Type	<input type="checkbox"/>
2. Variable Credit Range:		2. Satisfactory/Unsatisfactory Only	<input type="checkbox"/>	Department	<input type="checkbox"/>
Minimum Cr. Hrs		3. Repeatable	<input checked="" type="checkbox"/>	Instructor	<input type="checkbox"/>
(Check One) To <input type="checkbox"/> Or <input type="checkbox"/>		Maximum Repeatable	<u>3</u>	7 Variable Title	<input type="checkbox"/>
Maximum Cr. Hrs		4. Credit by Examination	<input type="checkbox"/>	8 Honors	<input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		5. Special Fees	<input type="checkbox"/>	9 Full Time Privilege	<input type="checkbox"/>
				10 Off Campus Experience	<input type="checkbox"/>

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Cross-Listed Courses
Lecture	50	1	5	33%	
Recitation					
Presentation					
Laboratory	100	1	16	67%	
Lab Prep					
Studio					
Distance					
Experiential					
Research					
Ind. Study					
Pract/Observ					

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
<i>William Clark</i>	12-3-09	<i>Mark ...</i>	12/3/09
West 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.

EPICS 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.

Required Text(s): Service-Learning: Engineering in Your Community, 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 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