

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

32-04

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>10100</u>	Course Number <u>10100</u>	CAMPUS(ES) INVOLVED
Long Title <u>Freshman 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"/>
2. Variable Credit Range: _____	2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>
Minimum Cr. Hrs _____	3. Repeatable <input checked="" type="checkbox"/>
(Check One) To <input type="checkbox"/> Or <input type="checkbox"/>	Maximum Repeatable <u>2</u>
Maximum Cr. Hrs _____	4. Credit by Examination <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Special Fees <input type="checkbox"/>
	6. Registration Approval Type <input type="checkbox"/>
	Department <input type="checkbox"/> Instructor <input type="checkbox"/>
	7. Variable Title <input type="checkbox"/>
	8. Honors <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 _____
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.

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. EPCS 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 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

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

32-04

DEPARTMENT EPCS

EFFECTIVE SESSION 02/05

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

- | | | | |
|-------------------------------------|--|--------------------------|----------------------------------|
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| <input type="checkbox"/> | 5. Change in course title | <input type="checkbox"/> | 11. Change in semesters offered |
| <input type="checkbox"/> | 6. Change in course credit/type | | |

PROPOSED:

Subject Abbreviation EPCS
Course Number 101

EXISTING:

Subject Abbreviation _____
Course Number _____

TERMS OFFERED
Check All That Apply:
Summer Fall Spring

Long Title Freshman Participation in EPICS

Short Title Fresh Part in EPICS

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

CAMPUS(ES) INVOLVED

Calumet	<input type="checkbox"/>	Fort Wayne	<input type="checkbox"/>
Indianapolis	<input type="checkbox"/>	N. Central	<input type="checkbox"/>
W. Lafayette	<input checked="" type="checkbox"/>	Cont Ed	<input type="checkbox"/>
Tech Statewide	<input type="checkbox"/>		

CREDIT TYPE

1. Fixed Credit: Cr. Hrs.
2. Variable Credit Range:
Minimum Cr. Hrs
(Check One) To Or
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
Maximum repeatable credit:
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

Instructional Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Delivery Method (Asyn. Or Syn.)	Delivery Medium (Audio, Internet, Live, Text-Based, Video)
Le... 028 R... ion	50	1	5	33%	Syn	Live
Presentation Laboratory .055	100	1	15	67%	Syn	Live Live
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

COURSE DESCRIPTION (INCLUDE REQUISITES):

Please see attached.

Calumet Undergrad Curriculum Committee	Date	Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date	Fort Wayne Chancellor	Date
Indianapolis Department Head	Date	Indianapolis School Dean	Date	<i>Robert Christman</i> 9/19/05	Date
North Central Department Head	Date	North Central Chancellor	Date	Date Approved by Graduate Council	
<i>H. Jammi</i> 9/16/05	Date	<i>Wah H. Jammi</i> 9/16/05	Date	Graduate Council Secretary	Date
West Lafayette Department Head	Date	West Lafayette School Dean	Date	<i>Sandra Chappell</i>	Date
Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette Registrar	Date