

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

EFD 58-10

DEPARTMENT EPICS EFFECTIVE SESSION Fall 2010 ST 2011

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes (department head signature only) |
| <input 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:

Subject Abbreviation EPICS

Course Number 10200

Long Title First Year Participation in EPICS

Short Title First Year Participation EPICS

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

EXISTING:

Subject Abbreviation _____

Course Number _____

TERMS OFFERED

Check All That Apply:

- Summer Fall Spring

CAMPUS(ES) INVOLVED

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

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 2
 2. Variable Credit Range: _____
 Minimum Cr. Hrs. _____
 (Check One) To Or
 Maximum Cr. Hrs. _____
 3. Equivalent Credit: Yes No

1. Pass/Not Pass Only
 2. Satisfactory/Unsatisfactory Only
 3. Repeatable
 Maximum Repeatable: 6
 4. Credit by Examination
 5. Special Fees

COURSE ATTRIBUTES: Check All That Apply

- 6 Registration Approval Type
 Department Instructor
 7 Variable Title
 8 Honors
 9 Full Time Privilege
 10 Off Campus Experience

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	1	10	33%
Recitation				
Presentation				
Laboratory	100	1	16	67%
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Prerequisite: EPICS 10100 and departmental approval

See attachment for course description

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

Michael Chen Feb 25-10 *Michael T. Manning* 9/24/2010 *Jane DeLooper* 9/10/10

West Lafayette Registrar

OFFICE OF THE REGISTRAR

91910
2

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

FFD 58-10

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| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED:

Subject Abbreviation EPCS

Course Number 10200

Long Title First Year Participation in EPICS

Short Title First Yr Participation in EPICS

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

EXISTING:

Subject Abbreviation _____

Course Number _____

TERMS OFFERED

Check All That Apply:

- Summer Fall Spring

CAMPUS(ES) INVOLVED

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

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 1
2. Variable Credit Range:
Minimum Cr. Hrs. _____
(Check One) To Or
Maximum Cr. Hrs. _____
3. Equivalent Credit: Yes No

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
Maximum Repeatable: _____
4. Credit by Examination
5. Special Fees

COURSE ATTRIBUTES: Check All That Apply

- 6 Registration Approval Type
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- 8 Honors
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Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	1	10	33%
Recitation				
Presentation				
Laboratory	100	1	16	67%
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Prerequisite: EPCS 10100 and departmental approval

See attachment for course description

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 _____

West Lafayette Department Head _____ Date _____ West Lafayette College/School Dean _____ Date _____ West Lafayette Registrar _____ Date _____

TO: The Faculty of the College of Engineering
FROM: The EPICS Curriculum Committee of the College of Engineering
RE: New Undergraduate Course, EPCS 10200 First Year Participation in EPICS

The curriculum committee of the EPICS program has approved the new course listed below. This action is now submitted to the Engineering Faculty with a recommendation for approval.

EPCS 10200 FIRST YEAR PARTICIPATION IN EPICS

Sem. 1, 2, Lec 1, Lab 2, Cr. 2.

Prerequisite: EPCS 10100 and departmental approval.

Course Description:

Continuation of EPCS courses (see EPCS 10100). Participants in EPCS 102 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. Working with team's sophomores, juniors and seniors they perform and report upon tasks consistent with their level of discipline expertise. EPCS 10200 is offered for 2 credits and is intended for students who have exhibited significant achievement in EPCS 10100 and desire the level of responsibility that is appropriate for 2 credits. May be repeated for credit.

Reason:

Since Learning Community students were added to the curriculum some outstanding first year students will take EPCS 10100 their first semester at Purdue. The addition of EPCS 10200 provides a way for exceptional students to become engaged at a sufficient level to earn two credit hours in their second semester. This course allows the option, with departmental approval, for students to enroll at the two credits level reflecting the increased responsibility and workload associated with the two credit enrollment.



William Oakes, Director
EPICS Program

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE ENGINEERING
CURRICULUM COMMITTEE

ECC Minutes #22

Date 4/6/10

Chairman ECC R. Cipra

SUPPORTING DOCUMENTATION

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:

- 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 session on specific technical topics relevant to the projects.

Lab Outline:

Week	Major Course Milestones
2	Semester Project Plan
3	Personal 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. Team Report; Review of Design Notebooks; Peer evaluation and self assessment
Final	Team Presentation

Time Requirements (as noted from the course syllabus)

Lecture is 50 minutes each week, but attendance requirements vary based on the number of credit hours you are registered for and if you are a new or returning student to EPICS. There are 5 required lectures for new students, and two required lectures for returning students. Students enrolled for one (EPCS 101) credit hour must accumulate at least 5 lecture credits. Students taking two (EPCS 102) credit hours are required to have a semester total of 10 lecture credits. Students with a scheduling conflict with the Monday lecture of EPICS should notify their advisor or TA. A list of all scheduled lectures and more information about making up missed lectures can be found at the EPICS course website.

The typical expectations regarding time spent on EPICS are as follows. But like other courses on campus, you may need to spend more time than is typical to achieve a similar outcome:

2 credit hours (EPCS 102) = average 5 hours/week outside the lecture and lab on your EPICS project

1 credit hour (EPCS 101) = average 3.5 hours/week on your project for the 10 weeks when you don't attend lecture