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

**DEPARTMENT**: EPICS

**EFFECTIVE SESSION**: Fall 2010

**PROPOSED**:
- Subject Abbreviation: EPICS
- Course Number: 10200
- Course Title: First Year Participation in EPICS

**EXISTING**:
- Subject Abbreviation: 
- Course Number: 
- Course Title: 

**TERMS OFFERED**:
- Summer
- Fall
- Spring

**CAMPUS(ES) INVOLVED**:
- Calumet
- Cintr Ed
- Ft. Wayne
- Indianapolis
- N. Central
- Tech Statewide
- W. Lafayette

**CREDIT TYPE**:
1. Fixed Credit: Cr. Hrs.:
2. Variable Credit Range:
   - Minimum Cr. Hrs.:
   - Maximum Cr. Hrs.:
3. Equivalent Credit:
   - Yes
   - No

**COURSE ATTRIBUTES**:
- Pass/No Pass Only
- Satisfactory/Unsatisfactory Only
- Repeatable
- Maximum Repeatable:
- Credit by Examination
- Special Fee

**Schedule Type**:
- Lecturer
- Recreation
- Presentation
- Laboratory
- Lab Prep
- Studio
- Distance
- Clinic
- Experiential
- Research
- Ind. Study
- Prof. Obsrv

**Weeks Offered**:
- 10
- 14

**% of Credit Attributed**:
- 55%
- 67%

**COURSE DESCRIPTION** (INCLUDE, REQUESTED/RESTRICTIONS): 
Prerequisite: EPICS 10100 and departmental approval

See attachment for course description

**COURSE LEARNING OUTCOMES**
See attached

**Columbus Department Head**
**Date**

**Columbus School Dean**
**Date**

**Fort Wayne Department Head**
**Date**

**Fort Wayne School Dean**
**Date**

**Indianapolis Department Head**
**Date**

**Indianapolis School Dean**
**Date**

**North Central Department Head**
**Date**

**North Central School Dean**
**Date**

**West Lafayette Department Head**
**Date**

**West Lafayette College/School Dean**
**Date**

**West Lafayette Registrar**
**Date**

**OFFICE OF THE REGISTRAR**

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**EFD 58-10**
**PURDUE UNIVERSITY**
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

**DEPARTMENT:** EPICS  
**EFFECTIVE SESSION:** Fall 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. Expansion of a course
4. Change in course number
5. Change in course title
6. Change in course credit/Type

**PROPOSED:**
- Subject Abbreviation: EPICS
- Course Number: 10200
- Long Title: First Year Participation in EPICS
- Short Title: First Yr Participation in EPICS

**EXISTING:**
- Subject Abbreviation: 
- Course Number: 
- Long Title: 
- Short Title: 

**COURSES OFFERED:**
- Check All That Apply:
  - Summer
  - Fall
  - Spring

**CAMPUS(ES) INVOLVED:**
- Column
- Cost Ed
- PI: Wayne
- Indianapolis
- N. Central
- Tech statewide
- W. Lafayette

**CREDIT TYPE**
- Fixed Credit: 3 Cr. Hrs.
- Variable Credit Range: 0 to 3
- Minimum Cr. Hrs:
  - (Check One):
    - To
    - Or
- Maximum Cr. Hrs:
  - (Check One):
    - Yes
    - No

**COURSE ATTRIBUTES:**
- Check All That Apply:
  - 6 Registration Approval Type
    - Department
    - Instructor
  - 7 Variable Title
  - 8 Honors
  - 9 Full Time Privileges
  - 10 Off Campus Experience

**SCHEDULE TYPE**
- Lecture: 3 PR, 1 LW
- Recitation: 1 UU
- Presentation: 1 UU
- Laboratory: 1 UU
- Preparatory: 1 UU
- Studio: 1 UU
- Distance: 1 UU
- Clinic: 1 UU
- Internship: 1 UU
- Research: 1 UU
- Ind. Study: 1 UU
- Prior/Obser: 1 UU

**COURSE DESCRIPTION (INCLUDE REQUIREMENTS/RESTRICTIONS):**
Prerequisite: EPICS 10100 and departmental approval

See attachment for course description

**COURSE LEARNING OUTCOMES**
See attached

**Signatures:**
- Column: Department Head
- School Dean
- Fort Wayne Department Head
- School Dean
- Indianapolis Department Head
- School Dean
- North Central School Dean
- Vice Chancellor, Student Affairs
- West Lafayette Department Head
- West Lafayette School Dean
- West Lafayette Registrar

**OFFICE OF THE REGISTRAR**
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.

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William Oakes, Director  
EPICS Program

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**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.
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:

<table>
<thead>
<tr>
<th>Weeks</th>
<th>Lectures</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-15</td>
<td>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.</td>
</tr>
<tr>
<td>Week</td>
<td>Major Course Milestones</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>2</td>
<td>Semester Project Plan</td>
</tr>
<tr>
<td>3</td>
<td>Personal Goals</td>
</tr>
<tr>
<td>4</td>
<td>Project Charters (new projects); Project Demonstration (continuing projects); Review of Design Notebooks; Delivery Review of Projects to be Delivered Week 4.</td>
</tr>
<tr>
<td>5 - 6</td>
<td>Continued Progress on Projects and Project Documentation.</td>
</tr>
<tr>
<td>7</td>
<td>Internal Design Review; oral or poster presentation.</td>
</tr>
<tr>
<td>8</td>
<td>Peer evaluation and self assessment; Review of Design Notebooks.</td>
</tr>
<tr>
<td>9 - 10</td>
<td>Continued Progress on Projects and Project Documentation.</td>
</tr>
<tr>
<td>11</td>
<td>Project Design Review; Delivery Review of Projects to be Delivered Week 11.</td>
</tr>
<tr>
<td>12 - 14</td>
<td>Continued Progress on Projects and Project Documentation.</td>
</tr>
<tr>
<td></td>
<td>Team Report; Review of Design Notebooks; Peer evaluation and self assessment</td>
</tr>
<tr>
<td>Final</td>
<td>Team Presentation</td>
</tr>
</tbody>
</table>

**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