**REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE**

**DEPARTMENT:** EPICS  
**EFFECTIVE SESSION:** Spring 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. Expiration of a course
- [ ] 4. Change in course number
- [ ] 5. Change in course title
- [ ] 6. Change in course credit/type
- [ ] 7. Change in course attributes (department head signature only)
- [ ] 8. Change in instructional hours
- [ ] 9. Change in course description
- [ ] 10. Change in course requisites
- [ ] 11. Change in semesters offered (department head signature only)
- [ ] 12. Transfer from one department to another

**PROPOSED:**

- **Subject Abbreviation:** EPICS
- **Course Number:** 20200
- **Long Title:** Sophomore Participation in EPICS

**EXISTING:**

- **Subject Abbreviation:** EPICS
- **Course Number:** 20200

**TERMS OFFERED**

- [ ] Summer
- [ ] Fall
- [ ] Spring

**CAMPUS(ES) INVOLVED**

- [ ] Calumet
- [ ] Fort Wayne
- [ ] Indianapolis
- [ ] N. Central
- [ ] Tech Statewide
- [ ] W. Lafayette

**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**

This change is to allow Purdue Columbus site this course offering.

**COURSE LEARNING OUTCOMES**

See Attached

**Note:** Abbreviated title will be reviewed by the Office of the Registrar if omitted. (20 CHARACTERS ONLY)

**CREDIT TYPE**

<table>
<thead>
<tr>
<th>Schedule Type</th>
<th>Minutes Per Std</th>
<th>Weeks Offered</th>
<th>% Credit Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>5U</td>
<td></td>
<td>30%</td>
</tr>
<tr>
<td>Recitation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td>100</td>
<td>16</td>
<td>6.7%</td>
</tr>
<tr>
<td>Practical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COURSE ATTRIBUTES:**

- [ ] Pass/Not Pass Only
- [ ] Satisfactory/Unsatisfactory Only
- [ ] Department
- [ ] Instructor
- [ ] Repeatable
- [ ] Variable Title
- [ ] Full Time Privilege
- [ ] Off Campus Experience

**Cross-Listed Courses**

See Attached

**Calumet Department Head:** [Signature]  
**Calumet School Dean:** [Signature]  
**Fort Wayne Department Head:** [Signature]  
**Fort Wayne School Dean:** [Signature]  
**Indianapolis Department Head:** [Signature]  
**Indianapolis School Dean:** [Signature]  
**North Central School Dean:** [Signature]  
**North Central Vice Chancellor for Academic Affairs:** [Signature]  
**West Lafayette Department Head:** [Signature]  
**West Lafayette College/School Dean:** [Signature]  
**West Lafayette Registrar:** [Signature]

**OFFICE OF THE REGISTRAR**
TO: The Engineering Faculty
FROM: The EPICS Curriculum Committee
RE: New EPCS Course Number

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 202 SOPHOMORE PARTICIPATION IN EPICS
Offered Fall and Spring, Summer by special arrangement. Credit 2.
Prerequisite: EPCS 101 or 201, sophomore standing and permission of instructor.

Course Description: Continuation of EPCS courses (see EPCS 101). Sophomores participating in EPCS 202 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. Under the mentorship of the team’s juniors and seniors they perform and report upon tasks consistent with their level of discipline expertise. EPCS 202 is offered for 2 credits. May be repeated for credit.

REASON:

There are situations in which outstanding sophomore level students with previous EPICS course participation can become engaged at a sufficient level to earn two credit hours. This course allows the option, with instructor approval, for students to enroll at the two credits level reflecting the increased responsibility and workload associated with the two credit enrollment.

Normally Offered: Each Fall, Spring. Offered Summer by special arrangement.


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

Page 1 of 2
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 sessions on specific technical topics relevant to the projects.</td>
</tr>
</tbody>
</table>

Lab Outline:

<table>
<thead>
<tr>
<th>Week</th>
<th>Major Course Milestones</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Semester Project Plan</td>
</tr>
<tr>
<td>3</td>
<td>Personal Semester Goals</td>
</tr>
<tr>
<td></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>
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<td>7</td>
<td>Internal Design Review; oral or poster presentation</td>
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<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>
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<td>15</td>
<td>Team Report; Review of Design Notebooks; Peer evaluation and self assessment</td>
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<td>Final</td>
<td>Team Presentation</td>
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INSTRUCTIONS: Please check the items below which describe the purpose of this request:

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7. Change in course attributes
8. Change in instructional hours
9. Change in course description
10. Change in course prerequisites
11. Change in semesters offered

PROPOSED:
Subject Abbreviation: EPICS
Course Number: 202
Long Title: Sophomore Participation in EPICS
Short Title: Soph Part in EPICS

EXISTING:
Subject Abbreviation
Course Number

TERMS OFFERED:
Check All That Apply:
- Summer
- Fall
- Spring

CAMPUS(ES) INVOLVED:
- Calumet
- Fort Wayne
- Indianapolis
- N. Central
- W. Lafayette
- Cont Ed
- Tech Statewide

CREDIT TYPE
1. Fixed Credit: Cr. Hrs.: 2
2. Variable Credit Range:
   Minimum Cr. Hrs. (Check One) To
   Maximum Cr. Hrs. or
3. Equivalent Credit: Yes
4. Thesis Credit: Yes

COURSE ATTRIBUTES: Check All That Apply:
1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatability
   Maximum repeatable credit:
   4. Credit by Examination
   5. Designator Required
   6. Special Fees

Instructional Type:
- Lecture
- \[ \text{Minutes Per Mgr.} \]
- \[ \text{Meetings Per Week} \]
- \[ \text{Weeks Offered} \]
- \[ \text{% of Credit Allocated} \]
- \[ \text{Delivery Method (Asyn. Or Syn.)} \]
- \[ \text{Delivery Medium (Audio, Internet, Live, Text-Based, Video)} \]

- \[ \text{Calumet Undergrad Curriculum Committee Date} \]
- \[ \text{Calumet Department Head Date} \]
- \[ \text{Calumet School Dean Date} \]

- \[ \text{Fort Wayne Department Head Date} \]
- \[ \text{Fort Wayne School Dean Date} \]
- \[ \text{Fort Wayne Chancellor Date} \]

- \[ \text{Indianapolis Department Head Date} \]
- \[ \text{Indianapolis School Dean Date} \]
- \[ \text{Undergrad Curriculum Committee Date} \]

- \[ \text{North Central Department Head Date} \]
- \[ \text{North Central Chancellor Date} \]
- \[ \text{Date Approved by Graduate Council} \]

- \[ \text{W. Lafayette Department Head Date} \]
- \[ \text{West Lafayette School Dean Date} \]
- \[ \text{Graduate Council Secretaries Date} \]

- \[ \text{Graduate Area Committee Convener Date} \]
- \[ \text{Graduate Dean Date} \]
- \[ \text{West Lafayette Registrar Date} \]

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APPROVED FOR THE FACULTY  
OF THE SCHOOLS OF ENGINEERING  
BY THE COMMITTEE ON  
FACULTY RELATIONS  

CFR Minutes ________ 1018 ________  
Date ________ 4/21 ________  
Chairman CFR ________
Normally Offered: Each Fall, Spring. Offered Summer by special arrangement.


Recommended Reference(s): None.

Course Outcomes:

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<th>Activity</th>
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