


Bachelor of Science in Computer Science / Software Engineering Track-PrgRsv-2015-11-12

- The workflow icon is no longer available. Please click on the Page Status after the orange circle icon near the page title. *

Form Information

 First Step : Change the text in the [brackets] so it looks like this: Bachelors in Criminology Pre-Law-PrgRsv-2015-08-10

Second Step: Click save on bottom right

Third Step: Make sure the word "DRAFT" is in yellow at the top of the proposal

Fourth Step : Click on EDIT CONTENTS and start completing the template. When exiting or done, click save on bottom right

When ready to submit click on the workflow icon and hit approve. It will then move to the chair as the next step in the workflow.

Please direct any questions to curriculum-approval@iup.edu

**Indicates a required field*

Proposer*	Terrence Fries	Proposer Email*	t.fries@iup.edu
Contact Person*	Terrence Fries	Contact Email*	t.fries@iup.edu
Proposing Department/Unit*	Computer Science	Contact Phone*	7-4492

<p>Program Revision Options (Check all that apply)</p> <p><i>* Teacher Education: Please complete the Teacher Education section of this form (below)</i></p> <p><i>* Liberal Studies: Please complete the Liberal Studies section of this form (below)</i></p>
--

Course Level:*	undergraduate-level
----------------	---------------------

Rationale for Proposed Changes	
(A) Why is the program being revised?*	<p>The track is being changed to require the 2 lab sequence for the Natural Science requirement. The department plans to apply for ABET accreditation for this track. ABET requires a minimum of 2 natural sciences with labs.</p> <p>The number of credits for an Economics minor is being changed from 15 to 18 to reflect changes in that minor. The number of credits for a minor is being corrected on the new side and the new name for the Information Assurance Minor– Cyber Security is being used.</p>

<p>(B) Identify the <u>Program</u> Student Learning Outcomes</p> <p>(SLO). Mark any SLOs that are changing as a part of the Program Revision.*</p>	<p>Students in any Computer Science track should set their goals beyond simple programming and should be preparing to</p> <ol style="list-style-type: none"> 1. apply computer science knowledge to application areas from science and industry; 2. apply appropriate data structures and algorithms to analyze and solve new problems; 3. apply software engineering techniques to designing, implementing, documenting, testing, and maintaining software systems; 4. contribute to improving the design and implementation of databases; 5. use more than one programming language and choose an appropriate one for the project; 6. work with and communicate effectively with professionals in various fields; 7. continue a lifelong professional development in computing; 8. act ethically and professionally. <p>A graduate of this track will be prepared to</p> <ol style="list-style-type: none"> 1. develop Web-based applications and interfaces; 2. work with all types of computer systems—legacy, current, and future; 3. apply knowledge of computing to an area of secondary interest (dependent on the minor taken); 4. work with a variety of software tools in designing and implementing computer-based systems; 5. manage activities that are strongly computer-system dependent; 6. be employed at entry-level through project leader positions. <p>There are no changes to the SLOs.</p>
<p>(C) Implications of the change on the program, other programs and the Students:*</p>	<p>The only implication for the program is that the track will be eligible for ABET accreditation. The change has no implication for other programs. The only implication for students is the requirement to take a lab with the second natural science course.</p>

Current Program Information		Proposed Changes	
(D) Current Program Title*		Proposed Program Title	
(E) Current Narrative Catalog Description	UG Course Catalog: http://www.iup.edu/registrar/catalog/ Grad Course Catalog: http://www.iup.edu/graduatestudies/catalog/ <i>It is acceptable to copy/paste from the current catalog entry.</i>	Proposed Narrative Catalog Description	

Requi
rements

Liberal Studies: As outlined in Liberal Studies 43-44

section with the following specifications:

Mathematics: 3cr , MATH 125 (1)

Liberal Studies Electives: 3cr , MATH 216, no courses with COSC prefix.

Major: 46

Required Courses:

COSC 105 Fundamentals of Computer Science 3cr


COSC 110 Problem Solving and Structured Programming 3cr

COSC 210 Object-Oriented and GUI Programming 3cr

COSC 220 Applied Computer Programming 4cr

--	--	--	--

--	--

If Completing this Section, Check the Box to the Right:	
Course Designations:	
Key Assessments	
	<p>For both new and revised courses, please attach (see the program education coordinator):</p> <ul style="list-style-type: none"> • The Overall Program Assessment Matrix • The Key Assessment Guidelines • The Key Assessment Rubric <p style="text-align: center;">File Modified</p> <hr/> <p>No files shared here yet.</p> <ul style="list-style-type: none"> • Drag and drop to upload or browse for files 
Narrative Description of the Required Content	<i>How the proposal relates to the Education Major</i>

For Deans Review
Are Resources Available/Sufficient for this Course?
Is the Proposal Congruent with the College Mission?
Has the Proposer Attempted to Resolve Potential Conflicts with Other Academic Units?
Comments:

Please scroll to the top and click the Page Status if you are ready to take action on the workflow.
Please submit an ihelp if you have any questions <http://ihelp.iup.edu>