

COSC 427 Introduction to Cryptography-CrsRvs-2019-03-30

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

Form Information

 The page you originally access is the global template version. To access the template document that progresses through the workflow, please complete the following steps:

First Step: ONLY change the text in the [brackets] so it looks like this: **CRIM 101 Intro to Criminology-CrsRvs-2015-08-10**

- If DUAL LISTED list BOTH courses in the page title*

Second Step: Click "SAVE" on bottom right

- DO NOT TYPE ANYTHING INTO THE FIRST PAGE OTHER THAN THE TEXT IN BRACKETS*
- Please be sure to remove the Brackets while renaming the page*

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

Fourth Step: Click on "EDIT CONTENTS" (*not EDIT*) and start completing the template. When exiting or when done, click "SAVE" (*not Save Draft*) 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.

**Indicates a required field*

Proposer*	David T. Smith	Proposer Email*	dtsmith@iup.edu
Contact Person*	David T. Smith	Contact Email*	dtsmith@iup.edu
Proposing Department/Unit*	Mathematical and Computer Sciences	Contact Phone*	7-4478

Course Level*	undergraduate-level
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Course Revisions	
(Check all that apply; fill out categories below as specified; i.e. if only changing a course title, only complete Category A)	
Category A:	Category B:
mod_prereq	course_revision <i>* Teacher Education: Please complete the Teacher Education section of this form (below)</i> <i>* Liberal Studies: Please complete the Liberal Studies section of this form (below)</i> <i>* Distance Education: Please complete the Distance Education section of this form (below) - Please check the completing this</i>

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(B) University Senate Summary of Rationale*	<i>Please enter a single paragraph summary/rationale of changes or proposal for University Senate.</i> The prerequisites are updated to list MATH 309 in place of MATH 122 or MATH 123. SLOs are reworded with active verbs and added assessments. Course outline is updated to be in line with current practice.
(C) Implications of the change on the program, other programs and the Students:*	None

Current Course Information*	
Category A	
(D) Current Prefix*	COSC
Proposed Prefix	
(E) Current Number*	427
Proposed Number	
(F) Current Course Title*	Introduction to Cryptography
Proposed Course Title	
(G) Prerequisite(s)	COSC 310, MATH 122 or 123
Proposed Prerequisite(s)	COSC 310 and MATH 309
(H) Current Catalog Description	Fundamental concepts of encoding and/or encrypting information, cryptographic protocols and techniques, various cryptographic algorithms, and security of information will be covered in depth.
Proposed Catalog Description	Covers fundamental concepts of encoding and/or encrypting information, cryptographic protocols and techniques, various cryptographic algorithms, and security of information in depth.
<i>If changing Category A, no further action required.</i>	
Category B (if no change, leave blank)	
(I) Repeatable Course This is for a course that can be repeated Multiple times e.g. Internship	If YES, please complete the following: Number of Credits that May be Repeated: Maximum Number of Credits Allowed to be Repeated:
Proposed Repeatable Course	If YES, please complete the following: Number of Credits that May be Repeated: Maximum Number of Credits Allowed to be Repeated:
(J) Number of Credits	Class Hours per week:3 Lab Hours:0 Credits:3
Proposed Number of Credits	Class Hours:Lab Hours:Credits:

<p>(K) Current Course Student Learning Outcomes (SLOs)</p>	<p>Upon successful completion of this course, the students are expected to learn</p> <ul style="list-style-type: none"> • The fundamentals of cryptography and encryption • Various cryptographic protocols and techniques • Cryptographic algorithms • Security of information systems
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<p>(L) Proposed Course Student Learning Outcomes (SLOs)</p> <p>For each outcome,</p>	<table border="1" style="width: 100%; height: 100%;"> <tr style="background-color: #e0e0e0;"> <td style="width: 25%;"></td> <td style="width: 50%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>															

	<ol style="list-style-type: none"> 1. <ol style="list-style-type: none"> a. b. c. d. e. f. 2. CryptographiP protoco 9 hthms <ol style="list-style-type: none"> a. b. c. d. 3. CryptographiT techniq 12 hthms <ol style="list-style-type: none"> a. b. c. d. 4. CryptographiA algorith 12 hthms <ol style="list-style-type: none"> a. b. c. d. e. f. 5. <ol style="list-style-type: none"> a. b. c.
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How will each outcome be measured (note should mirror (L) Student Learning Outcomes* (SLO) from the course proposal	<i>Narrative on how the course will address the Selected Category Content</i>	
	Course SLO #	Assessment Tool to be used to measure the outcome
	1	
	2	

3	
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All Liberal Studies courses are required to include perspectives on cultures and have a supplemental reading.

Please answer the following questions.

Liberal Studies courses must include the perspectives and contributions of ethnic and racial minorities and of women whenever appropriate to the subject matter. Please explain how this course will meet this criterion.	
Liberal Studies courses require the reading and use by students of at least one non-textbook work of fiction or non-fiction or a collection of related articles. Please describe how your course will meet this criterion.	

Teacher Education Section

- Complete this section only for a new Teacher Education course or Teacher Education course revision

If Completing this Section, Check the Box to the Right:	NOTE: you must check this box if the Course/Program has previously been approved for Teacher Education related items
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 style="width: 20%; margin-left: 0;"/> <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>

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>