B.S. in Biochemistry-PrgRsv-2018-06-11

• 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 <u>DRAFT</u> 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" (*NO* t 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*	Anne Kondo	Proposer Email*	akondo@iup.edu
Contact Person*	Anne Kondo	Contact Email*	akondo@iup.edu
Proposing Department/Unit*	Chemistry	Contact Phone*	7243572360

Program Revision Options (Check all that apply)

* Teacher Education: Please complete the Teacher

Education section of this form (below)

* Liberal Studies: Please complete the Liberal Studies

section of this form (below)

Program Level:* undergraduate-level

5

Rationale for Proposed Changes

(A) Why is the program being moving the program from under the college to the Chemistry department.

Identify <u>Program</u> Vel Student	Stuc	dents will be able to:	
rning	#	Outcome	How outcome measured
icomes iLO)		Students will be able to understand and explain main principles of biochemical processes using knowledge of biochemical, inorganic, organic, physical and analytical chemistry.	Seniors will complete the American Chemical Society Biochemistry Exam
Ds that re be inged hlighting		Students will be able to measure, synthesize and analyze biochemical systems following appropriate personal and environmentally safe procedures.	Students will pass the Chemical Safety Exam; Students will produce accurate results from a biochemistry experiment in BIOC 311 or 412.
M in red.* Outcomes must be measurable		Students will be able to apply their knowledge to conduct and analyze experiments f-on biochemical systems, following the scientific method on biochemical systems, and to conduct research and communicate the results of their work.	Students will conduct research and produce a report for CHEM 498 or BIOC 482.
outcomes recommen ded for degree programs Tracks, concentrati ons, certificates must have at least one outcome that is unique from a related degree program Minors and majors may share outcomes PLSLOs will be evaluated as part of the program's assessmen t plan			
blications he change the gram, other programs I the			
dents:*			
gram Information	ı		
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Propo sed	
Program Title	
(if changin g)	
(E) Current	UG Course Catalog: http://www.iup.edu/registrar/catalog/
Narrative	Grad Course Catalog:http://www.iup.edu/graduatestudies/catalog/
Catalo	
g Descript	OLD CATALOG DESCRIPTION – UNDER NSM
ion	Biochemistry Program
	Website: www.iup.edu/biochemistry
lf copying pasting	Coung Diep and Jana Villemain, Co-coordinator; N. Bharathan, S. Bharathan, Ford, Hinrichsen, Irani, Jain, Ko, Kyler, Luciano, Majumdar, Ruby, Southard, Widzowski; and professors emeriti Butler, Harding, Sowa
from current	The BS degree program in biochemistry is a four-year degree curriculum offered as a cooperative program by the Biology and Chemistry depart-ments. This program also offers the Biochemistry minor.
catalog entry, please paste	The curriculum leading to a BS degree with a major in biochemistry begins with foundation courses in biology, chemistry, mathematics, and physics in the first two years. Specialization in biochemistry commences in the third year with courses in biochemistry, genetics, physical chemistry, special topics in biochemistry, and biochemistry seminar. Completion of one chem-istry course as a controlled elective allows students the option to receive a biochemistry degree certified by the American Chemical Society.
into Word	A unique feature of this undergraduate program is that biochemistry research is a requirement. After consultation with faculty, the students will define a problem and devise an experimental plan through library research. Laboratory research will be done under the direct supervision of a faculty member. Finally,
or Notepa	the student will report on the results of the research in both written and oral forms.
d first to	This program is intended for students whose interests lie in a most exciting field of modern science. Graduates can expect to be qualified to enter graduate programs in biochemistry, biology, chemistry, and molecular biology; professional schools in the health sciences; and positions in industrial and government research laboratories and in industrial production facilities.
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Prop osed	PROPOSED CATALOG DESCRIPTION – under CHEMISTRY
Narrative	Bachelor of Science - Biochemistry
Catal og	Website: www.iup.edu/biochemistry The RS degree in biochemistry is a four year degree and the Rischemistry minor are affered by the Chemistry department
Descript ion	The BS degree in biochemistry is a four-year degree and the Biochemistry minor are offered by the Chemistry department. The curriculum leading to a BS degree with a major in biochemistry begins with foundation courses in biology, chemistry, mathematics, and physics in the first
(if changin g)	two years. Specialization in biochemistry commences in the third year with courses in biochemistry, genetics, physical chemistry, special topics in biochemistry, and biochemistry seminar. Completion of one chemistry course as a controlled elective allows students the option to receive a biochemistry degree certified by the American Chemical Society.
	A unique feature of this undergraduate program is that biochemistry research is a requirement. After consultation with faculty, the students will define a problem and devise an experimental plan through library research. Laboratory research will be done under the direct supervision of a faculty member. Finally, the student will report on the results of the research in both written and oral forms.
	This program is intended for students whose interests lie in a most exciting field of modern science. Graduates can expect to be qualified to enter graduate programs in biochemistry, biology, chemistry, and molecular biology; professional schools in the health sciences; and positions in industrial and government research laboratories and in industrial production facilities.

(F) Current and Proposed	Please clearly label the attachment as Program Requirements.		
Progra m Require ments	aFile Modified		
(G) Supporting Documents* Are you making a major change?			

If making a major change, please attach a document with a summary of any/all changes.	
Please clearly label the attachment as Supporting Documentation.	
File Modified	

Liberal Studies Section

- Complete this section only for a new Liberal Studies course or Liberal Studies course revision

If Completing this Section,	NOTE: you must check this box if the Course/Program has previously been approved for Liberal Studies	
Check the Box to the Right:		

Liberal Studies Course Designations (Check all that apply)	
Learning Skills:	
Knowledge Area:	
Liberal Studies Elective	Please mark the designation(s) that apply - must meet at least one
Expected Undergraduate Student	Describe how each Student Learning Outcome in the course enables students to become Informed Learners, Empowered Learners and/or Responsible Learners
Learning Outcomes	See http://www.iup.edu/WorkArea/DownloadAsset.aspx?id=181694
(EUSLOs)	
Description of the Required	Narrative on how the course will address the Selected Category Content
Content for this Category	

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,	NOTE: you must check this box if the Course/Program has previously been approved for Teacher Education related items
Check the Box to the Right:	
Course Designations:	
Key Assessments	
•	For both new and revised courses, please attach (see the program education coordinator): • The Overall Program Assessment Matrix • The Key Assessment Guidelines • The Key Assessment Rubric File Modified No files shared here yet. Drag and drop to upload or browse for files
Narrative Description of the	How the proposal relates to the Education Major
Required Content	
Please scroll to the top and cl	ick the Page Status if you are ready to take action on the workflow.

Please scroll to the top and click the Page Status If you are ready to take ac Please submit an ihelp if you have any questions http://ihelp.iup.edu