Option

MinorCertificate

Change Program Proposal Form

Submitted on 10/09/2023 by Keiichi Yoshimatsu (<u>KYoshimatsu@MissouriState.edu)</u>.

Department:

Chemistry & Biochemistry

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program

Does this program include any new courses?

No Ves (A corresponding new course form must be submitted to create each new course.)

Title of Program Affected:

Chemistry-BS (Non-Comprehensive)

Current Catalog Description:

(Either cut and paste present description from online catalog **OR** provide as an attachment

below)

10/24/23, 7:50 AM

Chemistry (Non-Comprehensive) Bachelor of Science

Major requirements (60-71 hours)

CHM 160(4), 161(1), 170(3), 171(1), 302(5), 342(3), 343(3), 345(2), 375(3), 398(1)*, 445(2), 492(0), 498(1)*, 502(3), 503(1); CHM 504(3) and 505(1); or CHM 506(3) and 507(3) and 508(2); and one hour from CHM 397* or 399*,**.

Chemistry electives from one of the following categories (8-9 hours):

For a basic chemistry program without a specific area of emphasis, at least eight hours from CHM 352(3), 376(2), 399^{*},^{**} or 499(1-3)^{*}, 460(3) or 461(3), 509(2).

For students with a strong interest in environmental chemistry: CHM 460(3), 461(3), 462(2).

For students with a strong interest in biochemistry or health careers: CHM 554(3), 555(2), 556(3).

For students with a strong interest in education: CHM 352(3), 435(1), 460(3), 462(2). Students interested in pursuing certification for high school science teaching should declare a Foundation of Interdisciplinary Science minor.

For a specific area of interest not included in categories a, b, c, or d: at least nine hours of chemistry courses numbered greater than 300 selected in consultation with the student's academic advisor and approved by the department head.

Public Affairs Capstone Experience will be fulfilled by completion of CHM 398 and 498(2); and CHM 397 or 399 or 499(1).

Related science and mathematics requirements (14-20 hours): MTH 261*** and 280(10) or MTH 261*** and 288(8) or MTH 287 and 288(6). PHY 123*** and 124(8) or PHY 203*** and 204(10).

Minor required (or second major).

*Will also count toward the Public Affairs Capstone Experience requirement. **If using CHM399 to fulfill B.1. and B.2.a.: Any hours of CHM399 used to fulfill B.2.a. are in addition to B.1. ***Will also count toward General Education requirements.

Not Attached

Complete New Catalog Description: (Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)



Chemistry (Non-Comprehensive) Bachelor of Science

Major requirements (**61**60-**72**71 hours) CHM 160(4), 161(1), 170(3), 171(1), 302(5), 342(3), 343(3), 345(2), 375(3), $\frac{398(1)^*}{445(2)}$, 445(2), 492(0), $\frac{498(1)^*}{502(3)}$, 503(**2**1); CHM 504(3) and 505(1); or CHM 506(3) and 507(3) and 508(2); and one hour from CHM 397* or 399*,**.

Chemistry electives from one of the following categories (8-9 hours):

For a basic chemistry program without a specific area of emphasis, at least eight hours from CHM 352(3), 376(2), $399(1-3)^*$, $499(1-3)^*$, 460(3) or 461(3), 509(2).

For students with a strong interest in environmental chemistry: CHM 460(3), 461(3), 462(2).

For students with a strong interest in biochemistry or health careers: CHM 554(3), 555(2), 556(3).

For students with a strong interest in education: CHM 352(3), 435(1), 460(3), 462(2). Students interested in pursuing certification for high school science teaching should declare a Foundation of Interdisciplinary Science minor.

For a specific area of interest not included in categories a, b, c, or d: at least nine hours of chemistry courses numbered greater than 300 selected in consultation with the student's academic advisor and approved by the department head.

Public Affairs Capstone Experience **requirement:** will be fulfilled by completion of CHM 398(1) and 498(12); and CHM 397(1) or 399(1) or 499(1).

Related science and mathematics requirements (14-20 hours): MTH 261(5)^{\pm **} and 280(510) or MTH 261(5)^{\pm **} and 288(38) or MTH 287(3)** and 288(36). PHY 123(4)^{\pm **} and 124(48) or PHY 203(5)^{\pm **} and 204(510).

Minor required (or second major).

*Will also count toward the Public Affairs Capstone Experience requirement.

**If using CHM399 or 499 credits used to fulfill the Chemistry electives requirementB.1. and B.2.a.: Any hours of CHM399 used to fulfill B.2.a. are in addition to the one credit hour used to fulfill the Public Affair Capstone Experience requirementB.1.

***Will also count toward General Education requirements.

POWERED BY TINYMCE

Not Attached

Total Hours: 61-72

What is changing? Check all boxes that apply:

Title change

- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling 0
- Adding newly created course(s) totaling 0 credits

(Note: A new course proposal must be submitted for each new course)

Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

credits

Changing admission requirements

Other

The changes are to make the descriptions clearer and eliminate outdate/incorrect descriptions. Meanwhile, the proposed changes do not affect students in terms of which courses they need to fulfill the requirements for B.S. in Chemistry.

Reason for Proposed Change:

We have received comments from students regarding confusing descriptions on our program requirement. We've identified the cause of the confusions and therefore we would like to address this issue by:

1) correcting the outdated information on credit hours (the credit hours for CHM 503 was previously changed from 1 to 2).

2) correcting the description containing old notations (B.1. and B.2.a.) on how to count CHM 399 or CHM 499 credits toward Chemistry electives.

3) removing/editing the redundant descriptions regarding the courses to fulfill "Public Affairs Capstone Experience requirement".

4) showing credit hours of each course when "and" "or" is included as a part of the statement in order to make the descriptions consistent throughout the document.

What is the date that this new program was approved by departmental or program faculty? (MM/DD/YYYY)

09/26/2023

Current Status:

College Council Review

Proposal Progress:

10/10/2023 - Submitted by Department Head (Adam Wanekaya)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal





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Change Course Proposal Form

Submitted on 10/09/2023 by Keiichi Yoshimatsu (<u>KYoshimatsu@MissouriState.edu)</u>.

*All fields require input This proposal applies to:					
An existing COURSE					
An existing REGULAR (e.g. permanent) SECTION of a variable content course.					
Existing Course:					
CHM399 Undergraduate Research					
Will this proposal need to be reviewed by CGEIP? $\buildred $ No $\buildred $ Yes					
Will this proposal need to be reviewed by EPPC? $\ \odot$ No $\ \bigcirc$ Yes					
Is there a graduate/undergraduate parallel course to this one? $$ No $$ Yes					

Current online catalog description:

CHM 399 Undergraduate Research

Prerequisite: permission of instructor. Individual investigation of a chemical problem under the guidance of a chemistry and biochemistry department faculty member. Students are required to consult with the Department of Chemistry and Biochemistry to obtain a research information packet and to discuss research options with chemistry faculty members. A formal written report is required for this course. May be repeated to a maximum of five hours. Public Affairs Capstone Experience course. 1-3 F,S,Su

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

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CHI	M 399 Undergraduate R	esearch						
pro are pac rep	Prerequisite: permission of instructor. An i Individual investigation of a chemical or biochemical project problem under the guidance of a chemistry and biochemistry department faculty member. Students are required to consult with the Department of Chemistry and Biochemistry to obtain a research information packet and to discuss research options with chemistry and biochemistry faculty members. A formal written report is required for this course. May be repeated to a maximum of five hours. Public Affairs Capstone Experience course. 1-3 F,S,Su							
						Ρ	OWERED BY TINYMCE .	
What	is changing? Check all boxe	es that app	ly.					
	Course Code		Course Number (<u>Check</u> <u>Availability</u>)		Title		Prerequisite	
	Credit Hours/Contact Hours		Periodicity		Description			
Reaso	on for proposed change							
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How	did you determine the need	for this ch	ange? Check all boxes that ap	ply or specify	other.			
	Routine or annual review/	assessmei	nt of curriculum		Faculty Input		Student Input	
	Accreditation/certification	compliand	ce	~	Review of cat	talog infor	mation	

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty? (MM/DD/YYYY)

09/26/2023

Current Status:

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Change Course Proposal Form

Submitted on 10/09/2023 by Keiichi Yoshimatsu (<u>KYoshimatsu@MissouriState.edu)</u>.

*All fields require input This proposal applies to:					
An existing COURSE					
An existing REGULAR (e.g. permanent) SECTION of a variable content course.					
Existing Course:					
CHM499 Advanced Undergraduate Research					

Will this proposal need to be reviewed by CGEIP?	No	Yes

Will this proposal need to be reviewed by EPPC?		No	\bigcirc	Yes
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Is there a graduate/undergraduate parallel co	ourse to this one? 🛛 🔍 No	Yes
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Current online catalog description:

CHM 499 Advanced Undergraduate Research

Prerequisite: CHM 398 and CHM 399, and permission of instructor. Investigation of a research project as a continuation from CHM399 or pursuit of more advanced study under the guidance of a chemistry and biochemistry department faculty member. A formal written report and formal oral presentation of the research conducted are is required for this course. May be repeated to a maximum of five hours. Public Affairs Capstone Experience course. 1-3 F,S,Su

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

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/24/20,		0411-1	Change Course i Toposari onn - Cu				Cisity
СНМ	1 499 Advanced Under	graduate	Research				
che	mical or biochemica	l -researc l	9, and permission of instru 1 project as a continuation histry and biochemistry de	from CHM	399 or pursui	t of mor	e advanced
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What	is changing? Check all boxe	es that appl	у.				
	Course Code		Course Number (<u>Check</u> <u>Availability</u>)		Title	 Image: A set of the set of the	Prerequisite
	Credit Hours/Contact Hours		Periodicity	V	Description		
Reaso	n for proposed change						
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clarif	y the fact that students can	work on th	e project in the field of either ch tency on the descriptions for Cl	emistry or bi	ochemistry for th	nis course	<u>.</u>
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Doe	es this change affect course	assessme	nt (e.g. student learning evidenc	e/outcomes)	? 🖲 No 🔵 Ye	S	
	Explain.						
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How c	lid you determine the need	for this cha	ange? Check all boxes that appl	y or specify o	ther.		
	Routine or annual review/	assessmer	t of curriculum		Faculty Input		Student Input

 \checkmark

Review of catalog information

Accreditation/certification compliance

Other (be specific):

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty? (MM/DD/YYYY)

09/26/2023

Current Status:

College Council Review

Proposal Progress: 10/10/2023 - Submitted by Department Head (Adam Wanekaya)

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