APPROVED BY SENATE
02/10/2020

Date Submitted: 11/04/19 3:47 pm

Viewing: 0335 : Chemistry Minor

Last edit: 12/05/19 11:26 am

Changes proposed by: Amy Elli

Catalog Pages Using this Program	Chemistry Minor

In Workflow

1. **U Program Review**
2. **1413 Head**
3. **SOCS Head**
4. **KV Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. DMI

Approval Path

1. 11/04/19 4:15 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 11/04/19 4:27 pm Scott Silverman (sks): Approved for 1413 Head
3. 12/04/19 9:06 am Cheryl Kappes (dambache): Approved for SOCS Head
4. 12/04/19 8:55 pm Kelly Ritter (ritterk): Approved for KV Dean
5. 12/04/19 9:15 pm John Wilkin (jpwilkin): Approved for University Librarian

6. 12/05/19 9:56 am Kathy Martensen (kmartens): Approved for Provost

Proposal Type

Proposal Type:
Minor (ex. European Union Studies)

This proposal is for a:
Revision

Proposal Title:

if this proposal is one piece of a multi-element change please include the other impacted programs here. *example: A BS revision with multiple concentration revisions*

Revision to the Chemistry Minor

Is this program available on campus and online?	**No**
Official Program Name	Chemistry Minor
Banner/Codebook Name Chemistry	
Program Code:	0335

Major Code	Minor Code	0335	Conc Code	Degree Code

EP Control Number	**EP.20.71**
Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	

IBHE Approval Date	
Effective Date:	
Effective Catalog Term	Fall 2020
Sponsor College	Liberal Arts & Sciences
Sponsor Department	Chemistry
Sponsor Name	**Scott K. Silverman**
Sponsor Email	**sks@illinois.edu**
College Contact	**Kelly Ritter**
College Contact Email	**ritterk@illinois.edu**

Is this program interdisciplinary?

No

Is this minor?

A Comprehensive study in a single discipline

Academic Level	Undergraduate
CIP Code	

Program Description and Justification

Justification for proposal change:

We are requesting to modify the description of courses that may or may not be used to complete the Chemistry minor, as listed at http://catalog.illinois.edu/undergraduate/las/minors/chemistry/
Currently, the Chemistry minor text at the above URL states as follows:
Choose two 3-4 credit hour courses from the List of Advanced Courses Approved for Chemistry Minor Credit (300- and 400-level Chemistry courses, not research or independent study, 3 hours credit or more) 1
As part of a routine evaluation of our department's undergraduate degree requirements, the department's Courses & Curricula Committee made the following three assessments.
1. The committee assessed that the following sentence should be added to the main paragraph: "The two courses to be taken should be from different subdisciplines of chemistry." This stipulation has always been the department's intention and in practice is usually the case for Chemistry minors, and adding this sentence will ensure the intended outcome in all cases. The reason for requiring two different subdisciplines is that a Chemistry minor should have reasonable breadth of advanced knowledge in

Chemistry minor should have reasonable breadth of advanced knowledge in chemistry. This objective cannot properly be reached if a Chemistry minor's only two advanced Chemistry courses are in the same subdiscipline of chemistry. Examples of subdisciplines in Chemistry include analytical chemistry, inorganic chemistry, organic chemistry, and physical chemistry. Each advanced Chemistry course is readily associated with exactly one of these subdisciplines. Therefore, any Chemistry minor (especially with routine advice through the SCS Advising Office) should have no difficulty ensuring that their two chosen advanced Chemistry courses are from different subdisciplines

2. The committee assessed that of the ten CHEM courses listed in footnote 1, all but CHEM 492 can be deleted, because all but CHEM 492 are already excluded by the existing wording "(...not research or independent study, 3 hours credit or more)". Therefore, listing these courses in footnote 1 is redundant and confusing.

CHEM 315, 420, 445, and 447 are each only 2 credit hours.

CHEM 494 is only 1 credit hour.

CHEM 397, 496, 497, and 499 are each "research, individual, or independent study".

3. Finally, the committee assessed that CHEM 495 (Teaching Secondary Chemistry, 4 hours) should be added to the footnote 1 list, because this course is intended specifically for undergraduates who are working toward high school teaching certification, and therefore it is inappropriate for broader Chemistry minor credit.

Combining these three considerations, our request is to modify the relevant text to read as follows:

Choose two 3-4 credit hour courses from the List of Advanced Courses Approved for Chemistry Minor Credit (300- and 400-level Chemistry courses, not research or independent study, 3 hours credit or more).1 The two courses to be taken should be from different subdisciplines of chemistry.

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

no specific admission requirements for the minor.

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

The department does not envision any impact on the number of minors awarded.

Delivery Method

This program is available:

Face-to-Face

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

Budget

Are there budgetary implications for this revision? **No**

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

Resource Implications

Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

Technology

Will the program need additional technology beyond what is currently available for the unit?

No

Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

Resources

Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

The department does not envision any impact on library resources with this proposed revision.

Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

Financial Resources

How does the unit intend to financially support this proposal?

Will the unit need to seek campus or other external resources?

No

Attach letters of support

Program Regulation

Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable.

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

Program of Study

"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs **Chemistry minor comparison.docx**

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text

Catalog Page Text: Description of program for the catalog page. This is not official content, it is used to help build the catalog pages for the program. Can be edited in the catalog by the college or department.

Chemistry Minor

For advising see the Chemistry Overview Section.

Statement for Programs of Study Catalog

Course List

Code	Title	Hours
Choose one group of Chemistry courses below		8-10
CHEM 102	General Chemistry I	
CHEM 103	General Chemistry Lab I	
CHEM 104	General Chemistry II	
CHEM 105	General Chemistry Lab II	
or		

Code	Title	Hours
CHEM 202	Accelerated Chemistry I	
CHEM 203	Accelerated Chemistry Lab I	
CHEM 204	Accelerated Chemistry II	
CHEM 205	Accelerated Chemistry Lab II	
CHEM 232	Elementary Organic Chemistry I	3 or 4
or CHEM 236	Fundamental Organic Chem I	
CHEM 233	Elementary Organic Chem Lab I	2
or CHEM 237	Structure and Synthesis	
Choose two 3-4 credit hour courses from the List of Advanced Courses Approved for Chemistry Minor Credit (300- and 400-level Chemistry courses, not research or independent study, 3 hours credit or more). The two courses to be taken should be from different subdisciplines of Chemistry. 1		6-8
Total Hours		19-24

1 *The following courses may not be used to complete the minor: CHEM 492, CHEM 495.*

~~Chemistry Minor For advising see the Chemistry Overview Section .~~

EP Documentation

Attach
Rollback/Approval
Notices

DMI Documentation

Attach Final
Approval Notices

Attached
Document

Justification for
this request

Program Reviewer
Comments

Key: 270

Current

Chemistry Minor

For advising see the Chemistry Overview Section.

		Hours
Choose one group of Chemistry courses below		8-10
CHEM 102	General Chemistry I	
CHEM 103	General Chemistry Lab I	
CHEM 104	General Chemistry II	
CHEM 105	General Chemistry Lab II	
or		
CHEM 202	Accelerated Chemistry I	
CHEM 203	Accelerated Chemistry Lab I	
CHEM 204	Accelerated Chemistry II	
CHEM 205	Accelerated Chemistry Lab II	
CHEM 232	Elementary Organic Chemistry I	3 or 4
or CHEM 236	Fundamental Organic Chem I	
CHEM 233	Elementary Organic Chem Lab I	2
or CHEM 237	Structure and Synthesis	
Choose two 3-4 credit hour courses from the List of Advanced Courses Approved for Chemistry Minor Credit (300- and 400-level Chemistry courses, not research or independent study, 3 hours credit or more) [1]		6-8
Total Hours		19-24

[1] *The following courses may not be used to complete the minor: CHEM 315 , CHEM 397, CHEM 420, CHEM 445, CHEM 447, CHEM 492, CHEM 494, CHEM 496, CHEM 497 and CHEM 499.*

Proposed

Chemistry Minor

For advising see the Chemistry Overview Section.

		Hours
Choose one group of Chemistry courses below		8-10
CHEM 102	General Chemistry I	
CHEM 103	General Chemistry Lab I	
CHEM 104	General Chemistry II	
CHEM 105	General Chemistry Lab II	
or		
CHEM 202	Accelerated Chemistry I	
CHEM 203	Accelerated Chemistry Lab I	
CHEM 204	Accelerated Chemistry II	
CHEM 205	Accelerated Chemistry Lab II	
CHEM 232	Elementary Organic Chemistry I	3 or 4
or CHEM 236	Fundamental Organic Chem I	
CHEM 233	Elementary Organic Chem Lab I	2
or CHEM 237	Structure and Synthesis	
Choose two 3-4 credit hour courses from the List of Advanced Courses Approved for Chemistry Minor Credit (300- and 400-level Chemistry courses, not research or independent study, 3 hours credit or more). The two courses to be taken should be from different subdisciplines of Chemistry [1]		6-8
Total Hours		19-24

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