

10KS0335MS: CHEMISTRY, MS

In Workflow

1. U Program Review (eastuby@illinois.edu; mhazen@illinois.edu; bv4@illinois.edu; jswen@illinois.edu)
2. 1413-CHEM Head (sks@illinois.edu)
3. SOCS Head (kenis@illinois.edu)
4. KV Dean (las-catalog@illinois.edu)
5. University Librarian (clairest@illinois.edu; tteper@illinois.edu)
6. Grad_College (agrindly@illinois.edu; lowry@illinois.edu)
7. COTE Programs (suzannel@illinois.edu)
8. Provost (bsnewell@illinois.edu)
9. Senate EPC (bjlehman@illinois.edu; bsnewell@illinois.edu)
10. Senate (jtempel@illinois.edu; bjlehman@illinois.edu)
11. U Senate Conf (kakuntz@illinois.edu)
12. Board of Trustees (kakuntz@illinois.edu)
13. IBHE (kakuntz@illinois.edu)
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15. DOE (mtrame@illinois.edu)
16. Catalog Editor (bv4@illinois.edu; bsnewell@illinois.edu)
17. DMI (eastuby@illinois.edu; nnagy2@illinois.edu; bv4@illinois.edu; jswen@illinois.edu)

Approval Path

1. Tue, 21 Apr 2026 16:55:15 GMT
Brianna Vargas-Gonzalez (bv4): Approved for U Program Review
2. Tue, 21 Apr 2026 16:56:59 GMT
Scott Silverman (sks): Approved for 1413-CHEM Head
3. Tue, 21 Apr 2026 17:23:32 GMT
Paul Kenis (kenis): Approved for SOCS Head
4. Fri, 24 Apr 2026 15:39:51 GMT
Melissa Reedy (murray): Approved for KV Dean
5. Mon, 27 Apr 2026 19:15:51 GMT
Tom Teper (tteper): Approved for University Librarian
6. Mon, 04 May 2026 17:46:11 GMT
Allison McKinney (agrindly): Approved for Grad_College
7. Wed, 06 May 2026 03:28:34 GMT
Suzanne Lee (suzannel): Approved for COTE Programs
8. Tue, 12 May 2026 14:50:23 GMT
Brooke Newell (bsnewell): Rollback to KV Dean for Provost
9. Tue, 12 May 2026 15:21:54 GMT
Melissa Reedy (murray): Rollback to Initiator
10. Tue, 12 May 2026 19:27:09 GMT
Emily Stuby (eastuby): Rollback to Initiator
11. Wed, 13 May 2026 15:54:04 GMT
Emily Stuby (eastuby): Rollback to Initiator
12. Tue, 19 May 2026 14:03:30 GMT
Brianna Vargas-Gonzalez (bv4): Approved for U Program Review
13. Tue, 19 May 2026 14:04:19 GMT

Scott Silverman (sks): Approved for 1413-CHEM Head

14. Fri, 22 May 2026 16:39:10 GMT

Paul Kenis (kenis): Approved for SOCS Head

15. Mon, 08 Jun 2026 20:06:22 GMT

Melissa Reedy (murray): Approved for KV Dean

16. Tue, 09 Jun 2026 17:22:01 GMT

Tom Teper (tteper): Approved for University Librarian

17. Tue, 16 Jun 2026 19:38:15 GMT

Allison McKinney (agrindly): Approved for Grad_College

18. Wed, 17 Jun 2026 06:50:53 GMT

Suzanne Lee (suzannel): Approved for COTE Programs

19. Mon, 17 Aug 2026 14:28:33 GMT

Brooke Newell (bsnewell): Approved for Provost

History

1. Jan 17, 2020 by Mary Lowry (lowry)

2. Jul 5, 2022 by Mary Lowry (lowry)

Date Submitted: Wed, 13 May 2026 16:28:53 GMT

Viewing: 10KS0335MS : Chemistry, MS

Last approved: Tue, 05 Jul 2022 19:54:52 GMT

Last edit: Wed, 26 Aug 2026 15:20:20 GMT

Changes proposed by: Scott Silverman

Proposal Type:

Major (ex. Special Education)

This proposal is for a:

Revision

Administration Details

Official Program Name

Chemistry, MS

Sponsor College

Liberal Arts & Sciences

Sponsor Department

Chemistry

Sponsor Name

[Scott K. Silverman](#)

Sponsor Email

sks@illinois.edu

College Contact

[Stephen R. Downie](#)

College Contact Email

sdownie@illinois.edu

College Budget OfficerMichael Wellens**College Budget Officer Email**wellens@illinois.edu

If additional stakeholders other than the Sponsor and College Contacts listed above should be contacted if questions during the review process arise, please list them here.

Melissa Reedy, murray@illinois.edu (LAS Assistant Director Course & Cir Dvt)**Does this program have inter-departmental administration?**

No

Catalog Term**Desired Effective Catalog Term**

Fall 2026

Effective Catalog

2026-2027

Proposal Title

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberal Arts and Sciences, include the Graduate College for Grad Programs)

Revise the Master of Science in Chemistry in the College of Liberal Arts and Sciences and the Graduate College

Are there other related proposals that should be considered simultaneously with this one? If yes, please list the program keys and/or titles. Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently and together as needed. Format your response like the following "This BS proposal (key 567) is related to the Concentration A proposal (key 145)"

Program Justification

Provide a brief description, using a numbered item list, of the proposed changes to the program.

Provide a list of numbered items of what changed and why each change was necessary.

1. Added more detail to the program of study to indicate how a student in the Thesis Option obtains their 32 hours for transparency.

a. CHEM 591 (1 hour)

b. Area-Specific Core Coursework (4-12 hours)

The program in Chemistry includes six technical specialties (areas): analytical chemistry, chemical biology, inorganic chemistry, materials chemistry, organic chemistry, and physical chemistry.

c. 400- or 500-level CHEM courses or courses in a related discipline in consultation with your advisor (7-15 hours)

d. CHEM 599 (0-12 hours)

Students enroll at least once for CHEM 599, and can't apply more than 12 hours toward the degree.

2. Added more detail to the program of study to indicate how a student in the Non-Thesis Option obtains their 32 hours for transparency.

a. CHEM 591 (1 hour)

b. Area-Specific Core Coursework (4-12 hours)

The program in Chemistry includes six technical specialties (areas): analytical chemistry, chemical biology, inorganic chemistry, materials chemistry, organic chemistry, and physical chemistry.

c. 400- or 500-level CHEM courses or courses in a related discipline in consultation with your advisor (19-27 hours)

d. CHEM 599 (0-4 hours)

Up to 4 hours of CHEM 599 can be allowed to count toward the total 32 hours, after internal student request and approval by the Chemistry Head or DGS.

3. The Other Requirements table for the Thesis Option and the Non-Thesis Option were updated to reflect the criteria that must be met for each component of the degree.

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 outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Features

Academic Level

Graduate

Does this major have transcribed concentrations?

No

What is the longest/maximum time to completion of this program?

2 years

What are the minimum Total Credit Hours required for this program?

32

What is the required GPA?

3.0

CIP Code

400501 - Chemistry, General.

SOC Code(s) (Should be completed only for Certificates:)

Does this program prepare graduates for entry into a career or profession that is regulated by the State of Illinois?

No

Program of Study

Revised programs

Statement for Programs of Study Catalog

Thesis Option

Code	Title	Hours
<u>CHEM 591</u>	<u>Introductory Professional Development for Chemists</u>	<u>1</u>
<u>Area-Specific Core Coursework</u>		<u>4-12</u>
<u>400- or 500-level CHEM courses or courses in a related discipline in consultation with your advisor</u>		<u>7-15</u>
<u>CHEM 599</u>	<u>Thesis Research (max 12 applied toward degree)</u>	<u>0-12</u>
<u>Total Hours</u>		<u>32</u>

Other Requirements

Requirement	Description
Other requirements may overlap	
Minimum 500-level Hours Required Overall:	12
Minimum GPA:	3.0
<u>Other requirements may overlap.</u>	
<u>Minimum 500-level hours required overall</u>	<u>20 (8 CHEM)</u>
<u>CHEM 599 hours do not count toward the minimum 500-level hours required</u>	
<u>C/NC courses do not count toward degree</u>	
<u>CHEM 590 can count toward the 500-level requirement up to 4 hours</u>	
<u>Maximum of 2 hours from 1 credit hour courses can count toward the minimum 500-level hours required</u>	
<u>Literature seminar course (CHEM 515, CHEM 525, CHEM 535, CHEM 545, CHEM 575, or CHEM 585) does not count toward the minimum 500-level hours required</u>	
<u>Minimum GPA</u>	<u>3.0</u>

Non-Thesis Option

Code	Title	Hours
<u>CHEM 591</u>	<u>Introductory Professional Development for Chemists</u>	<u>1</u>
<u>Area-Specific Core Coursework</u>		<u>4-12</u>
<u>400-/500-level CHEM courses or courses in a related discipline in consultation with your advisor</u>		<u>19-27</u>
<u>CHEM 599</u>	<u>Thesis Research (up to 4 hours of CHEM 599 can be allowed to count toward the total 32 hours, after internal student request and approval by the Chemistry Head or DGS)</u>	<u>0-4</u>
<u>Total Hours</u>		<u>32</u>

Other Requirements

Requirement	Description
<u>Other requirements may overlap.</u>	
<u>Minimum 500-level hours required overall</u>	<u>20 (16 CHEM)</u>
<u>CHEM 599 hours do not count toward the minimum 500-level hours required</u>	
<u>C/NC courses do not count toward degree</u>	
<u>CHEM 590 can count toward the 500-level requirement up to 4 hours</u>	

Maximum of 2 hours from 1 credit hour courses can count toward the minimum 500-level hours required

Literature seminar course (CHEM 515, CHEM 525, CHEM 535, CHEM 545, CHEM 575, or CHEM 585) does not count toward the minimum 500-level hours required

Minimum GPA 3.0

Requirement	Description
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~~Other requirements may overlap~~

Minimum 500-level Hours Required Overall:	20 (16 in CHEM)
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Minimum GPA:	3.0
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Corresponding Degree

MS Master of Science

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

Are the learning outcomes for the program listed in the Academic Catalog?

Yes

Student Learning Outcomes

NOTE: Some of the learning outcomes below were taken or adapted from the 2013 American Chemical Society Presidential Commission on Graduate Education in the Chemical Sciences. The Department of Chemistry uses these as its main guidelines.

1. To have a deep working knowledge of the principles, techniques, and concepts of contemporary chemistry.
2. To be able to effectively design and carry out independent research leading to new knowledge or a practical, applicable result.
3. To be able to communicate clearly and effectively within and across disciplinary lines.
4. To be able to educate students interested in chemical sciences.
5. To be aware of and prepare for various career opportunities with an advanced degree in chemistry.
6. To clearly understand the ethical conduct of research.
7. To understand and adopt the best safety practices in chemical research.

Did you make any revisions to the learning outcomes you copied and pasted from the current academic catalog?

No

Program Description and Requirements Attach Documents

Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

Admission Requirements

Is this revision a change to the admission status of the program?

No

Provide a brief narrative description of the admission requirements for this program. Where relevant, include information about licensure requirements, student background checks, GRE and TOEFL scores, and admission requirements for transfer students.

Enrollment

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

No impact on enrollment and degrees awarded.

What is the matriculation term for this program?

Fall ONLY

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)

Financial Resources

What tuition rate do you expect to charge for this program? e.g, Undergraduate Base Tuition, or Engineering Differential, or Social Work Online (no dollar amounts necessary)

Graduate Chem/Life Science Rate

Are you seeking a change in the tuition rate or differential for this program?

No

Is this program requesting self-supporting status?

No

Attach letters and self-supporting documents as applicable

Program Support

Provide a brief description of the support for this program, including the financial, faculty, space, advisors/staff. Discuss plans to acquire any additional support that will be needed. If new or additional facilities or significant improvements to already existing facilities is needed, describe the Facility Need, Year 1 and 5 cost, and any other applicable notes.

The Chemistry MS program is quite small (low single digit number of students per year). Students in the program are generally supported financially on TA appointments. The faculty and space are provided via our considerably larger Chemistry PhD program, as are advisors. No additional support or facilities are necessary.

Attach any supporting documents as applicable.

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 proposal team consulted with Mary Schlembach and, based upon their input, determined that the Library's resources, collections, and services are sufficient to meet the needs of the program outlined in this proposal.

EP Documentation

EP Control Number

EP.27.028

Attach Rollback/Approval Notices

Non-EP Documentation

U Program Review Comments

Rollback Documentation and Attachment

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name

MS:Chemistry -UIUC

Program Code:

10KS0335MS

Minor Code

MS

Conc Code

Degree Code

Major Code

0335

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date

HLC Approval Date

DOE Approval Date

Effective Date:

Program Reviewer Comments

Allison McKinney (agrinldy) (Mon, 04 May 2026 17:46:07 GMT): Administratively approved.

Brooke Newell (bsnewell) (Tue, 12 May 2026 14:50:23 GMT): Rollback: Please include the coursework in the Program of Study table. This should be an item noted in the Justification, that you are adding coursework for increased transparency. Note that you can

connect with Mary Lowry in the Graduate College if you need assistance with how to best include the 'up to 4 hours of CHEM 599' in the Non-Thesis Option portion of the Program of Study table.

Melissa Reedy (murray) (Tue, 12 May 2026 15:21:54 GMT): Rollback: Please see notes below regarding adding coursework to the program of study table.

Emily Stuby (eastuby) (Tue, 12 May 2026 19:27:09 GMT): Rollback: College will be in contact.

Emily Stuby (eastuby) (Wed, 13 May 2026 15:54:04 GMT): Rollback: Please refer to the email from Mary Lowry.

Brianna Vargas-Gonzalez (bv4) (Mon, 15 Jun 2026 15:36:55 GMT): Tuition rate added to proposal for data storing purposes. NO changes have been made to the tuition rate.

Key: 164