

UNDERGRADUATE CURRICULUM FORMS

ILLINOIS STATE UNIVERSITY - NEW PROGRAM PROPOSAL

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New Undergraduate Program (Majors, Minors, Sequences) Proposal Illinois State University - University Curriculum Committee

Program Department [Chemistry](#)

Initiator [Jean Standard](#)

Phone [438-7700](#)

Initiator Department [Chemistry](#)

Coauthor(s) [Sarah Boesdorfer \(sbboesd@ilstu.edu\)](#)

Title of New Program [Chemistry: Pedagogy Emphasis Sequence](#)

Submission Date [Monday, March 28, 2016](#)

Email [standard@ilstu.edu](#)

Campus Address [4160 Chemistry](#)

Version [1](#)

Proposed Starting Catalog Year [2017-2018](#)

1. Proposed Action

New Major

New Minor

New Sequence

More than 50% of courses in this program are Distance Education

No Is this program an Integrated Bachelors/Masters degree program?

Sequence Major

Chemistry

2. Provide Undergraduate Catalog copy for new program.

Pedagogy Emphasis Sequence:

— 49 hours required in Chemistry, including at least 39 hours in courses numbered 200 or higher. The Pedagogy Emphasis sequence does not lead to licensure in the State of Illinois.

— 32 hours of core Chemistry courses required: CHE 140, 141, 215, 216, 230, 231, 232, 233, 250, 251, 342, 360, 361.

— 9 hours of Chemistry teacher education courses required: CHE 161, 301 (3 hours), 302.

— 6 hours of advanced courses required, selected from the following: CHE 315, 344, 350, 362.

— 2 advanced laboratory courses required, selected from the following: CHE 316, 343, 351, 363. One hour of undergraduate research (CHE 290 or 299) may substitute for one of these courses.

— 1 year of physics, preferably PHY 110 and 111, and 1 year of calculus (through MAT 146) must be completed prior to enrolling in CHE 360.

— Professional Education requirements: TCH 212, 216, 219; PSY 110, 215; STT 399A73 (8 hours); one of EAF 228, 231, or 235. Students must pass all sections of the State of Illinois Enhanced Test of Academic Proficiency (TAP) before they can register for TCH 216 and 219.

— Science competency courses (11 hours): BSC 197; GEO 100; PHY 205; or equivalent.

— A course in the major may not be taken more than twice unless the course description states "may be repeated." An exception may be requested once during a student's undergraduate career if the GPA in the major plan and the overall GPA is 2.00 or higher.

— A grade of C or better is required in the following Chemistry courses: CHE 140, 141, 215, 216, 230, 231, 232, 250, 251, 342, 360, 361.

— A grade of C or better is required in all areas including calculus, physics, science competency courses, Chemistry, and Professional Education courses.

— Students completing the Chemistry Pedagogy Emphasis Sequence must have a 2.50 or higher GPA in Chemistry, a 2.50 or higher GPA in Professional Education courses, and a cumulative GPA of 2.50 or higher.

— The following course is strongly recommended: SED 101.

3. Provide a description for the proposed program.

The Pedagogy Emphasis sequence is a non-licensure option for those who do not successfully complete the edTPA requirement for licensure. The requirements for this sequence are identical with those of the Chemistry Teacher Education Sequence with the exception of the requirement to pass the edTPA. However, some small changes in catalog copy were required to remove explicit references to licensure and endorsement; the catalog copy listed

above for the new sequence reflects these minor changes in wording.

4. Provide a rationale of proposed program.

This option will provide timely graduation for those students choosing not to pursue a retake of the edTPA.

5. Describe the expected effects of the proposed program on existing campus programs (if applicable).

None.

6. Provide a sample four year plan of study demonstrating that a student could realistically complete the program requirements in a specific number of semesters.

The plan of study is the same as that for the Chemistry Teacher Education Sequence.

7. Describe the expected curricular changes required, including new courses. If proposals for new courses have also been submitted, please reference those related proposals here:

None.

8. Anticipated funding needs and source of funds.

None.

9. No Does this program count for teacher education?

10. No Is this an Interdisciplinary Studies program?

11. The following questions must be answered.

Yes Have you confirmed that Milner Library has sufficient resources for the proposed program?

Yes Are more than 124 hours required to complete a degree with this major?

Provide a rationale for why this program is over 124 hours.

The Chemistry Pedagogy Emphasis sequence is designed to be identical to the Chemistry Teacher Education sequence, with the exception of successful completion of the edTPA requirement. The current requirements for the Chemistry Teacher Education sequence were approved in 2010 and include 125 total hours of coursework, 1 credit hour beyond the 124 hour requirement, as a result of professional education standards, science competency standards, and accreditation requirements from the American Chemical Society. The course work in the Chemistry Pedagogy Emphasis sequence is expected to be identical with that in the Chemistry Teacher Education sequence; thus, it also will require 125 hours.

Yes Beyond General Education, does the major require more than 66 semester hours?

Rationale for mandating over 66 hours in the major. [Required Hours Policy](#)

More than 66 hours of course work is required beyond General Education in order to meet science competency standards, professional education standards, and accreditation requirements for the American Chemical Society.

No Does this sequence (if in a major) require more than 55 semester hours of major courses?

Yes Does this program stipulate specific general education courses offered in the major department/school as a part of the major requirements only if such courses serve as prerequisites for other courses required by the major?

Explain why specific general education courses are required.

CHE 140 (General Chemistry I) is required for all chemistry majors; it is a prerequisite for other required courses in the major as it provides a more quantitative, technical approach to introductory chemistry that is necessary for later courses in the major. In addition, MAT 145 (Calculus I) is a prerequisite for CHE 360 (Physical Chemistry I), a required course for all chemistry majors.

No Is the proposed program intended to be longer than four years (as indicated by the plan of study)?

N.A. Have letter(s) of concurrence from affected departments/schools been obtained?

A departments/school is affected if it has a program with significant overlap or if it teaches a required or elective course in the program.

12. Routing and action summary for New Program:

[Proposal Routing](#)

1. Chemistry Department Curriculum Committee Chair

Jean Standard (website)

Signature

Jean Standard

Print

3/28/2016 11:13:26 AM

Date

2. Chemistry Department Chair/School Director

Craig McLauchlan (website)
Signature

Craig McLauchlan
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4/4/2016 3:41:56 PM
Date

3. College of Arts & Science College Curriculum Committee Chair

Todd Stewart (website)
Signature

Todd Stewart
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4/6/2016 2:04:21 PM
Date

4. College of Arts & Science College Dean

Sally Parry (website)
Signature

Sally Parry
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4/6/2016 2:11:51 PM
Date

5. University Curriculum Committee Chair

Claire Lieberman (website)
Signature

Claire Lieberman
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9/29/2016 2:09:39 PM
Date

All new programs (majors, minors, sequences) are routed by the U.C.C. to the Academic Senate

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Comments on Proposal. (Required if proposal rejected)

Academic Senate Approver

Approve

Reject

Edit