ChemBA: New Program, Propose New Major (and associated sequences), Minor or Certificate

Major/Minor/Certificate (Plan) Information

Program Code

CHEBA

Short Title

ChemBA

Long title (as much of full title as possible)

Chemistry BA

Description of the new major, and any associated sequence(s), minor, or certificate

Students earning the B.A. in the Department of Chemistry will develop skills in and knowledge of Chemistry studies with time to also focus on another discipline. Specifically, students complete 48 hours of required course work consisting of: 31-35 hours of requirements in Chemistry; and a minimum of 8 hours in advanced chemistry work including laboratory courses. Students pursuing the B.A. degree option in Chemistry must also satisfy the completion of support courses in MAT, including a statistics course, and PHY, to provide a more comprehensive understanding of the physical sciences.

Program Type

Major

Degree Designation

BA - Bachelor of Arts

Only respond if proposing a NEW Certificate: Is there currently an active major/ sequence/ in the same subject area as the new certificate you are proposing?

-

Career (acadCareer) - ONLY used for Minors - Set to Undergrad

-

Academic Program - Do not set for Minors

Arts and Sciences Undergrad

Department(s)

Chemistry

Split Ownership

No

Department Percent Ownership

Chemistry - 100.00%

Undergraduate or Graduate level?

Undergraduate

Modality for major, minor or certificate. If this proposal is for a Major and students are required to complete a Sequence to fulfill the major, this field should be set to "Refer to individual sequences." Indicate sequence(s) modality in Sequences (subplans) section below.

Refer to individual sequences

Does this major (or associated sequences), minor or certificate lead to teacher certification/licensure?

No

Total hours required for major/minor/certificate, and/or sequence(s). Include all required prerequisites and, if undergraduate, all required general education courses.

120

Undergraduate major/sequences only: Provide justification if requires more than 72 hrs beyond general education or more than 55 hrs in the major department.

-

Academic Planning

Preferred starting catalog year. If there are delays in the approval process, the starting catalog year may need to be adjusted. Example: 2028-2029.

2027-2028

Effective Start Date - if proposing new major AND new sequence - Eff Date must be Date of Approval

May 17, 2027

Status

Active

First Term Valid

-

Last Admit Term (`ssrLastAdmTerm`)

-

Major/Minor/Certificate (Plan) Administration

Upload supporting files (pdfs). Example: if a major/sequence includes courses offered by a different department, an email of concurrence from department chair(s) is required.

MATConcurrence.pdf

Program Length Type (`ssrProgLenType`)

Years

Program Length Value (`ssrProgLength`)

4

Evaluate Plan Before Program (Default is set to No) Don't Change.

No

Last Prospect Date

-

Transcript Level

Print on Official

Print On Diploma (Default set to: Yes for majors and certificates, Changes to No for minors)

Yes

Print On Transcript (Default set to Yes)

Yes

Diploma Description (Required for Majors and Certificates) Format: Full Title of the major, minor or certificate (refer to how others are built if they have a unique degree type for example). Some do not print on Diploma if title is part of the degree type title

Chemistry

Transcript Description

MAJ - Chemistry

CIP Code

40.0501

HEGIS Code

-

SULA Special Program (`sfaSpecProgFlg`)

-

NSC Classification (`ssrNscCrdLvl`) - Set for Majors and Certificates - not Minors

B - Bachelor's Degree

Requirement Term Default (`ReqtrmDflt`)

Program's Requirement Term

Field Of Study

-

Allow Integration Sync To SIS

Yes

Advisement

Show in What-If Advisor

Yes

Show in What-If Pre-matriculated Student

Yes

Show in What-If Student

Yes

Report as NSC Classification Program

Yes

Sequences (Subplans)

CHESCI - Chemical Sciences

Name
ChemicalSc

Long Name
Chemical Sciences

Type
Sequence

Status
Active

Catalog Short Description (max of 500 characters with spaces)
Students will develop skills in and knowledge of Chemistry studies with time to also focus on another discipline, if so chosen, that will help prepare them for careers in science that cross disciplines. This program provides students with foundational chemical understandings.

Modality (Required) - Only one modality type per sequence is allowed.
On Campus (50% or more instruction is on campus)

Requirements - This section becomes Catalog copy.

Simple Requirements

Sequences (subplans)

Chemical Sciences Sequence - 48 Minimum Required Hours

Type
Completion Requirement

Required Introductory Course

-

Complete ANY of the following Courses:

- CHE140 - General Chemistry I
- CHE110 - Fundamentals Of Chemistry
  AND CHE112 - Fundamental Chemistry Laboratory

Required Second Introductory Course

-

Complete ALL of the following Courses:

- CHE141 - General Chemistry II

Required Organic Course

-

Complete ANY of the following Courses:

- CHE230 - Organic Chemistry I
  AND CHE231 - Organic Chemistry Laboratory I
- CHE220 - Elementary Organic Chemistry

Required Fundamentals Courses

-

Complete at least 3 of the following courses:

- CHE215 - Analytical Chemistry
  AND CHE216 - Analytical Chemistry Laboratory
- CHE242 - Basic Biochemistry
  OR CHE342 - General Biochemistry I
- CHE250 - Fundamentals Of Inorganic Chemistry
  AND CHE251 - Fundamentals Of Inorganic Chemistry Laboratory
- CHE360 - Physical Chemistry I
  AND CHE361 - Physical Chemistry Laboratory I

Chemistry Lecture Electives

-

Take two additional 3-credit hour lecture courses from 215 and above

Chemistry Laboratory Electives

-

Take two additional laboratory courses (1-2 credit hours) numbered 216 or higher excluding CHE 290/299, CHE 398 can be substituted for 1 course.

Required Courses

-

Complete ALL of the following Courses:

- PHY108 - College Physics I
  AND PHY109 - College Physics II

- MAT120 - Finite Mathematics
  OR MAT121 - Applied Calculus
  OR MAT144 - Precalculus
  OR MAT145 - Calculus I

Quantitative Reasoning Elective

-

Complete one additional course to support quantitative reasoning from the following an MAT course 121 or higher, PSY 138, GEO 238, AGR 363, IT 166, ECO 138, NUR 138, or POL 138

General Education

General Education

Type
Completion Requirement

General Education Program

-

Complete ALL of the following Requirement Set:

- General Education Program (2014-2015 to 2027-2028 Catalogs)

Additional Comments:

There are three ways to complete general education requirements for Illinois State University. These three options have different requirements and affect only certain types of students. Refer to the General Education page of this catalog for information. Students should consult with their academic advisor if they have questions.

Below are the requirements for the Illinois State University General Education Program that beginning first time in college students must complete.

University

AMALI: Cultures and traditions of Asia, the Middle East, Africa, Latin America, or Indigenous (AMALI) Peoples of the World

Type
Completion Requirement

AMALI

-

Complete ALL of the following Requirement Set:

- AMALI

IDEAS: Inclusion, Diversity, Equity, and Access in U.S. Society

Type
Completion Requirement

IDEAS

-

Complete ALL of the following Requirement Set:

- IDEAS: Inclusion, Diversity, Equity, and Access in U.S. Society Graduation Requirement

Bachelor of Arts World Language

Type
Completion Requirement

Bachelor of Arts World Language

-

Complete ALL of the following Requirement Set:

- Bachelor of Arts World Language Graduation Requirement

College of Arts and Sciences World Language

Type
Completion Requirement

College of Arts and Sciences World Language

-

Complete ALL of the following Requirement Set:

- College of Arts and Sciences World Language Requirement

Sample Plans of Study (Degree Maps) - Undergraduate Majors and Sequences Only. This section becomes Catalog copy.

Degree Map Name
Chemical Sciences Sequence
Total Degree Map Credits
120 - 122

Degree Map Narrative

The requirements below pertain to this Undergraduate Catalog year only. The following is intended as a guide for academic planning, showing how a student may complete all requirements within the timeline indicated, including the order in which some courses should/must be taken. Students should consult with their academic advisor to discuss their individual plan of study.

A minimum of 120 total credit hours required, including 40 senior-level hours (200-300 level courses).

In addition to completing major requirements students must complete:

- General Education requirements (refer to the General Education Requirements page in this catalog for alternative options for transfer students)
- One course for the AMALI graduation requirement
- One course for the IDEAS graduation requirement
- Specific degree type requirements (Bachelor of Arts or Bachelor of Science)
- Some courses may satisfy a major requirement and one of the requirements noted above.

Year	Semester	Actual Credits
Year 1	Fall	15

Requirement Select

- CHE140 - General Chemistry I
- **AND** MAT145 - Calculus I

Actual Credits 8

Requirement Select

- ENG101 - Researching How Writing Works

  OR

- COM110 - Strategic Communication and Professional Messaging

Actual Credits 3

Requirement Select

- Foreign Language 111
  (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Year 1	Spring	14

Requirement Select

- CHE141 - General Chemistry II

Actual Credits 4

Requirement Select

- ENG101 - Researching How Writing Works

  OR

- COM110 - Strategic Communication and Professional Messaging

Actual Credits 3

Requirement Select

- Foreign Language 112
  (Generic)

Actual Credits 4

Requirement Select

- General Education Course (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Fall	16

Requirement Select

- CHE230 - Organic Chemistry I
- **AND** CHE231 - Organic Chemistry Laboratory I
- **AND** PHY108 - College Physics I

Actual Credits 9

Requirement Select

- Foreign Language 115 (Generic)

Actual Credits 4

Requirement Select

- General Education Course (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Spring	15

Requirement Select

- CHE250 - Fundamentals Of Inorganic Chemistry
- **AND** CHE251 - Fundamentals Of Inorganic Chemistry Laboratory
- **AND** PHY109 - College Physics II

Actual Credits 9

Requirement Select

- General Education Course (Generic)

Actual Credits 3

Requirement Select

- IDEAS or General Education Course (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Year 3	Fall	16

Requirement Select

- CHE215 - Analytical Chemistry
- **AND** CHE216 - Analytical Chemistry Laboratory

Actual Credits 4

Requirement Select

- Statistics Course or MAT 121 or higher course (Generic)

Actual Credits 3

Requirement Select

- AMALI or General Education (Generic)

Actual Credits 3

Requirement Select

- General Education Course (Generic)

Actual Credits 3

Requirement Select

- University wide elective
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Year 3	Spring	15

Requirement Select

- CHE242 - Basic Biochemistry

  OR

- CHE342 - General Biochemistry I

Actual Credits 3

Requirement Select

- University-Wide Electives
  (Generic)

Actual Credits 9

Requirement Select

- General Education course
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Year 4	Fall	13 - 14

Requirement Select

- Chemistry Elective Lecture and Lab
  (Generic)

Actual Credits 4 - 5

Requirement Select

- Senior level University-wide electives
  (Generic)

Actual Credits 6

Requirement Select

- General Education course
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Year 4	Spring	16 - 17

Requirement Select

- Chemistry Elective Lecture and Laboratory Course
  (Generic)

Actual Credits 4 - 5

Requirement Select

- General Education course
  (Generic)

Actual Credits 3

Requirement Select

- University-wide Electives
  (Generic)

Actual Credits 9

Catalog Fields (Coursedog only fields)

Catalog Display Name for Major, Minor, Certificate - See required format to the right

Chemistry - Bachelor of Arts

Catalog Short Description for Major, Minor, Certificate

The Department of Chemistry at Illinois State University is one of the largest undergraduate chemistry programs in the nation. Students earning the B.A. in the Department of Chemistry will develop skills in and knowledge of chemical sciences to apply broadly.

Catalog Full Description

-

Dependencies

Read Only Catalog Fields

Program Level

-

Learning Outcomes

Learning Outcomes

Learning outcomes are not integrated with Peoplesoft and exist as a "Coursedog Only" element.

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Instructional Methods (this card is hidden and should NOT be displayed)