

Chemistry AS DEGREE

Program Overview

The Associate in Science (AS) degree in Chemistry is awarded for successful completion of 60 credits in science and liberal arts. It is designed to constitute the first two years of a bachelor's degree in Chemistry.

Career Opportunities

Chemistry majors are curious, analytical and self-starting leaders. Upon completion of the Chemistry AS degree, students will have developed strong communication skills and grown in their scientific and mathematical reasoning skills as well as developed their ability to perform experiments in a hands-on environment. As graduates in Chemistry, students can choose a number of career options from technical scientific laboratory careers to education. Salaries will vary based on the chosen career path.

Program Outcomes

1. Design and conduct experiments as well as analyze and interpret the results.
2. Identify, formulate, and solve chemical and other science related problems.
3. Understand professional and ethical responsibility.
4. Apply knowledge of mathematics, science, and technology in the solution of chemical technology problems.
5. Solve science technology problems within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below.

For more information please go to www.saintpaul.edu/Transfer.

Chemistry Transfer Pathway AS

BS Chemistry
Metropolitan State University

Program Faculty

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Program Requirements

Check off when completed

Course	Cr
<input type="checkbox"/> BIOC 2700 Biochemistry	4
<input type="checkbox"/> CHEM 1711 Principles of Chemistry 1	4
<input type="checkbox"/> CHEM 1712 Principles of Chemistry 2	4
<input type="checkbox"/> CHEM 2720 Organic Chemistry 1	5
<input type="checkbox"/> CHEM 2721 Organic Chemistry 2	5
<input type="checkbox"/> PHYS 2700 General Physics 1 (w/Calc)	5
<input type="checkbox"/> MnTC Goal 3 elective	3
Subtotal	30

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

<input type="checkbox"/> Goal 1: Communication	7
ENGL 1711 Composition 1 – 4 cr	
SPCH 17XX (Goal 1 only) – 3 cr	
<input type="checkbox"/> Goal 3: Natural Science	5
BIOL 1740 General Biology 1: The Living Cell	
<input type="checkbox"/> Goal 4: Mathematical/Logical Reasoning	4
MATH 2749 Calculus 1 – 4 cr	
<input type="checkbox"/> Goal 5: History, Social Science, and Behavioral Sciences	3
<input type="checkbox"/> Goal 6: Humanities & Fine Arts	3
<input type="checkbox"/> Goals 1-10 of the MnTC	8
Students must select a minimum of 8 additional credits such that courses from at least six (6) goal areas of the Minnesota Transfer Curriculum are met.	
General Education Requirements	30

Total Program Credits 60

Program Start Dates

Fall, Spring, Summer

Course Sequence

This course sequence is recommended for a full-time student; however, this sequence is not required.

Not all courses are offered each semester; a selection of courses is offered summer term.

Students should consult with the Program Faculty each semester.

First Semester

Goal 1: ENGL 1711 Composition	4
Goal 1: SPCH XXXX	3
Goal 3: CHEM 1711 Principles of Chemistry 1	4
Goal 4: MATH 2749 Calculus 1	4
Total Semester Credits	15

Second Semester

Goal 3: CHEM 1712 Principles of Chemistry 2	4
Goal 3: PHYS 2700 General Physics 1 (w/Calc)	5
Goal 5: History, Social Science, and Behavioral Sciences	3
MnTC elective	3
Total Semester Credits	15

Third Semester

Goal 3: BIOL 1740 General Biology 1: The Living Cell	5
Goal 3: CHEM 2720 Organic Chemistry 1	5
Goal 6: Humanities & Fine Arts	3
MnTC elective (Goal 3)	3
Total Semester Credits	16

Fourth Semester

Goal 3: BIOC 2700 Biochemistry	4
Goal 3: CHEM 2721 Organic Chemistry 2	5
MnTC elective	5
Total Semester Credits	14

Total Program Credits 60

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 0922

College Level Mathematics: Score of 50+ or grade of "C" or better in MATH 0920

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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*Information is subject to change.
This Program Requirements Guide is not a contract.*