As a Chemistry major, you will learn the fundamentals of chemical theory and practice through scientific investigation, laboratory experience and research opportunities.

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberal Studies Requirements</td>
<td>76</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>68</td>
</tr>
<tr>
<td>Open Electives</td>
<td>48</td>
</tr>
<tr>
<td>Total hours required</td>
<td>192</td>
</tr>
</tbody>
</table>

**Learning Outcomes**

Students will be able to:

- Perform experiments.
- Apply proper safety protocols while in laboratory environments.
- Responsibly collect, analyze, and represent scientific data.
- Proficiently explain and apply, in writing, core chemical principles to the results of experiments and to representative problems.

**College Core Requirements**

**Modern Language Requirements**

Students who intend to graduate with the Bachelor of Arts (BA) degree will be required to demonstrate competence in a modern language equivalent to the proficiency attained from one year of college-level language study. Such competence may be demonstrated in one of several ways:

- completing the last course in the fourth-year high school sequence of any language
- completing the last course in the first-year college sequence of any language
- completing a college course beyond the first-year level in any language
- achieving a satisfactory score on any of the Modern Language placement examinations administered at DePaul
- achieving a satisfactory rating in a proficiency examination accepted by DePaul
- achieving a score of 3 or higher on the Advance Placement (AP) test for any language
- achieving a score of 5 or higher in the Language B assessment from a Standard or Higher Level International Baccalaureate (IB) program
- achieving a satisfactory score on the CLEP examination

Please note: Modern Languages courses with an E-designation are taught in English and may not be applied to the Modern Language Requirement.

For further information regarding satisfactory scores and possible credit from the DePaul placement, AP, CLEP, or IB examinations, please contact Student Records.

Students who complete an Inter-College Transfer (ICT) to the College of Science and Health will abide by the College of Science and Health Modern Language Requirement in place on the effective date of the ICT.

BA students who meet College requirements and wish to pursue further work in the language may elect the “Modern Language Option” of the Liberal Studies Program. While Bachelor of Science (BS) students are not required to demonstrate competency in a modern language, the “Modern Language Option” is available to them for language study at any level. Modern Languages courses with an E-designation are taught in English and may not be applied to the Modern Language Option.

**Major Declaration Requirements**

All students in the College are required to declare a major field prior to beginning their junior year. After researching College programs, the student should declare a major field by visiting Campus Connection and using the Declarations and Inter-College Transfer tool. The student will then be assigned a faculty advisor or staff advisor in the department or program and should make an appointment to see that advisor at his or her earliest convenience.

To change major fields, or to declare a minor or concentration, the student must use the Declarations and Inter-College Transfer tool described above. However, for the purpose of exploring the possibility of changing a major field, the student should consult an academic advisor in the College or an academic advisor in the Office for Academic Advising Support.

**Honors Program Requirements**

Honors program requirements can be found in the individual Colleges & Schools section of the University Catalog. Select the appropriate college or school, followed by Undergraduate Academics and scroll down.

**First Year Program**

- **Chicago Quarter**
  - LSP 110 DISCOVER CHICAGO
  - or LSP 111 EXPLORE CHICAGO
  - 4
- **Focal Point**
  - LSP 112 FOCAL POINT SEMINAR
  - 4
- **Writing**
  - WRD 103 COMPOSITION AND RHETORIC I
  - 1
  - 4
  - WRD 104 COMPOSITION AND RHETORIC II
  - 1
  - 4
- **Quantitative Reasoning**
  - Not Required
- **Sophomore Year**
- **Race, Power, and Resistance**
  - LSP 200 SEMINAR ON RACE, POWER, AND RESISTANCE
  - 4
- **Junior Year**
- **Experiential Learning**
  - Required
  - 4
- **Senior Year**
- **Capstone**
  - CHE 330 SENIOR CAPSTONE IN THE PHYSICAL SCIENCES
  - 1
  - 2
  - 4

1. Students must earn a C- or better in this course.
2. Students with a primary major in Chemistry are required to complete the Capstone offered by the Chemistry department. Students double majoring or pursuing dual degrees with the primary major or primary degree in Chemistry are required to complete the Capstone offered by the Chemistry department. Chemistry students in the University Honors Program shall take the University Honors Capstone. They are
not expected to take both the Honors Capstone and the primary major or primary degree Capstone.

Learning Domains
Arts and Literature (AL) (https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/arts-and-literature/)
• 3 Courses Required

Historical Inquiry (HI) (https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/historical-inquiry/)
• 2 Courses Required

• Not Required

Philosophical Inquiry (PI) (https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/philosophical-inquiry/)
• 2 Courses Required

Religious Dimensions (RD) (https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/religious-dimensions/)
• 2 Courses Required

Scientific Inquiry (SI) (https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/scientific-inquiry/)
• Not Required

Social, Cultural, and Behavioral Inquiry (SCBI) (https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/social-cultural-and-behavioral-inquiry/)
• 3 Courses Required

Notes
Courses offered in the student’s primary major cannot be taken to fulfill LSP Domain requirements. If students double major, LSP Domain courses may double count for both LSP credit and the second major. Students who choose to take an experiential learning course offered by the major may count it either as a general elective or the Experiential Learning requirement.

In meeting learning domain requirements, no more than one course that is outside the student’s major and is cross-listed with a course within the student’s major, can be applied to count for LSP domain credit. This policy does not apply to those who are pursuing a double major or earning BFA or BM degrees.

In addition, the Department of Chemistry recommends that students who are seeking accreditation by the American Chemical Society fulfill the Modern Language Option by completing a three-course language sequence. Please see an advisor for further information.

Major Requirements
Course Requirements
Common Core
All students pursuing a Bachelor of Arts or Bachelor of Science in chemistry must complete a common core of courses in the department. These courses are consistent with the requirements of all degree programs accredited by the American Chemical Society. The courses in the common core consist of:

Introductory Courses
Course Title Quarter Hours
Select one of the following:
CHE 130 GENERAL CHEMISTRY I 
& CHE 131 and GENERAL CHEMISTRY I LABORATORY 
CHE 120 GENERAL CHEMISTRY IP 
& CHE 131 and GENERAL CHEMISTRY I LABORATORY

Select one of the following:
CHE 132 GENERAL CHEMISTRY II 
& CHE 133 and GENERAL CHEMISTRY LABORATORY II 
CHE 122 GENERAL CHEMISTRY IIIP 
& CHE 133 and GENERAL CHEMISTRY LABORATORY II
CHE 134 GENERAL CHEMISTRY III 
& CHE 135 and GENERAL CHEMISTRY LABORATORY III

The department offers General Chemistry each summer. In this case, the combination of CHE 136/CHE 137 and CHE 138/CHE 139 may substitute for the three-quarter sequences above.

Foundation Courses
Course Title Quarter Hours
CHE 204 ANALYTICAL CHEMISTRY 
& CHE 205 and ANALYTICAL CHEMISTRY LABORATORY 
CHE 230 ORGANIC CHEMISTRY I 
& CHE 231 and ORGANIC CHEMISTRY LABORATORY I 
CHE 232 ORGANIC CHEMISTRY II 
& CHE 233 and ORGANIC CHEMISTRY LABORATORY II 
CHE 234 ORGANIC CHEMISTRY III 
& CHE 235 and ORGANIC CHEMISTRY LABORATORY III 
CHE 261 INSTRUMENTAL ANALYSIS (LECTURE AND LAB COMPONENTS)

Allied Courses
Calculus
One year of calculus is required to earn a baccalaureate degree in chemistry. This may be accomplished by completing any of the following three-course sequences offered by the Department of Mathematical Sciences:
Chemistry (BA)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence One</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 147</td>
<td>CALCULUS WITH INTEGRATED PRECALCULUS I</td>
<td>6</td>
</tr>
<tr>
<td>MAT 148</td>
<td>CALCULUS WITH INTEGRATED PRECALCULUS II</td>
<td>6</td>
</tr>
<tr>
<td>MAT 149</td>
<td>CALCULUS WITH INTEGRATED PRECALCULUS III</td>
<td>6</td>
</tr>
<tr>
<td>Sequence Two</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 150</td>
<td>CALCULUS I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 151</td>
<td>CALCULUS II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 152</td>
<td>CALCULUS III</td>
<td>4</td>
</tr>
<tr>
<td>Sequence Three</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 160</td>
<td>CALCULUS FOR MATHEMATICS AND SCIENCE MAJORS I</td>
<td>5</td>
</tr>
<tr>
<td>MAT 161</td>
<td>CALCULUS FOR MATHEMATICS AND SCIENCE MAJORS II</td>
<td>5</td>
</tr>
<tr>
<td>MAT 162</td>
<td>CALCULUS FOR MATHEMATICS AND SCIENCE MAJORS III</td>
<td>5</td>
</tr>
<tr>
<td>Sequence Four</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 170</td>
<td>CALCULUS FOR LIFE SCIENCES I</td>
<td>5</td>
</tr>
<tr>
<td>MAT 171</td>
<td>CALCULUS FOR LIFE SCIENCES II</td>
<td>5</td>
</tr>
<tr>
<td>MAT 172</td>
<td>CALCULUS III WITH DIFFERENTIAL EQUATIONS</td>
<td>5</td>
</tr>
<tr>
<td>Sequence Five</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 155</td>
<td>SUMMER CALCULUS I</td>
<td>6</td>
</tr>
<tr>
<td>MAT 156</td>
<td>SUMMER CALCULUS II</td>
<td>6</td>
</tr>
</tbody>
</table>

Students interested in earning credit for multi-variable calculus should not take the MAT 170/MAT 171/MAT 172 sequence. Business calculus cannot be substituted for any of the sequences above.

Physics

One year of calculus-based physics is required to earn a baccalaureate in chemistry. This may be accomplished by completing the following three-course sequence offered by the Department of Physics:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 170</td>
<td>UNIVERSITY PHYSICS I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 171</td>
<td>UNIVERSITY PHYSICS II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 172</td>
<td>UNIVERSITY PHYSICS III</td>
<td>4</td>
</tr>
</tbody>
</table>

Non-calculus-based physics cannot be used to meet the requirements of the common core unless previously approved by the Director of Undergraduate Studies or the Chair.

Departmental Program Requirements

The following enrollment-related policies are fully enforced by the Department of Chemistry

1. All students enrolling in the first course of a General Chemistry sequence must independently meet a minimum mathematics requirement. See the course descriptions for General Chemistry for up-to-date information.
2. All prerequisite chemistry courses must be completed with a C- or better. Students not meeting this requirement may be removed from course rosters before the start of an academic session. This requirement may be waived only with departmental consent.
3. The department offers lower-level sequences several times each academic year. Due to potentially small class sizes, upper-level courses are typically scheduled every other year. Students should consult with their faculty academic advisor to develop a program they can complete in a timely fashion.

Sequencing and Prerequisites

Students should begin their General Chemistry, Physics, and Calculus sequences in their freshman year, provided they have an adequate mathematics background. The Organic Chemistry sequence and Analytical Chemistry should be taken in the sophomore year. Students not yet prepared for calculus should take the prerequisite courses in the first year and take Calculus and General Physics one year later than suggested above. Advanced courses in Chemistry may be taken as soon as students have met the appropriate prerequisites.

Since the Undergraduate Common Core in Chemistry, Mathematics, and Physics is particularly demanding in the first two years, students take the majority of their Liberal Studies courses in their junior and senior years. This is necessary so that students have the necessary prerequisites for advanced courses.

Students are advised to talk with their advisor before double majoring, because some major combinations are prohibited. No more than 50% of the credits that apply to one major may be drawn from another major.

Concentrations, tracks and specializations provide focus to the major. In addition to any college core requirements, liberal studies requirements and major requirements, students are required to choose one of the following:

- Accelerated Program, Chemistry (BA) (https://catalog.depaul.edu/programs/chemistry-ba/chemistry-ba-accelerated-program/)
- Standard Concentration, Chemistry (BA) (https://catalog.depaul.edu/programs/chemistry-ba/chemistry-ba-standard-concentration/)