The Department of Biological Sciences offers a Dual-Degree BS in Biology and MS in Molecular and Cell Biology. Upon satisfactory completion of all of the undergraduate curriculum requirements, students receive a Bachelor of Science in Biology. Students complete graduate-level biology courses during their senior year. A maximum of 9 graduate credits may be used to fulfill both undergraduate and graduate requirements. Students must maintain an overall GPA of 3.0 for all graduate courses. Students earn the MS in Molecular and Cell Biology upon satisfactory completion of all of the graduate curriculum requirements.

The MS in Molecular and Cell Biology provides an excellent foundation for students intending to pursue studies in professional health care fields and doctoral programs. It also offers a competitive edge for students wishing to pursue a career in biotechnology and biopharmaceutical industries.

Dual-Degree BS in Biology/MS in Molecular and Cell Biology (4+1) Curriculum

Students who choose to pursue the five-year Master's Degree in Molecular and Cell Biology are required to complete the following courses by the end of their junior year:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 210</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 210L</td>
<td>and Organic Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>CHE 211</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 211L</td>
<td>and Organic Chemistry II Lab</td>
<td></td>
</tr>
<tr>
<td>PHY 110</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 110L</td>
<td>and General Physics I Lab</td>
<td></td>
</tr>
<tr>
<td>PHY 111</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>and General Physics II Lab</td>
<td></td>
</tr>
</tbody>
</table>

A minimum of two Biology Electives in separate elective categories (Molecular and Cellular Biology, Organismal, Physiology, or Experiential Learning). An elective in Molecular and Cellular Biology is strongly recommended.

Recommended Curriculum

The minimum number of credits required for the undergraduate degree is 120, and the minimum number of credits required for the graduate degree is 34. A maximum of 9 graduate credits may be used to fulfill both undergraduate and graduate requirements.
### Spring Semester
- **BIO 515** Advanced Biochemistry 4
- **BIO 605** DNA Methods Laboratory 4
- UC University Elective
- UC University Elective 3

### Fifth Year

#### Fall Semester
- **BIO 568** Molecular and Cell Biology 4
- **BIO 606** Protein Methods Laboratory 4
- **BIO Graduate Elective** 3

#### Spring Semester
- Graduate Elective 3
- Graduate Elective 3
- **BIO 675** Comp Exam in Molecular and Cell Biology 2

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**Admission Requirements: College of Arts and Sciences**

The requirements for admission into the undergraduate College of Arts and Sciences programs are the same as those for admission to Quinnipiac University.

Admission to the university is competitive, and applicants are expected to present a strong college prep program in high school. Prospective first-year students are strongly encouraged to file an application as early in the senior year as possible, and arrange to have first quarter grades sent from their high school counselor as soon as they are available.

For detailed admission requirements, including required documents, please visit the Admissions page of this catalog.