MASTER OF SCIENCE IN BIOLOGY: CONCENTRATION IN CELL AND MOLECULAR BIOLOGY

A student interested in pursuing an advanced degree in any of these programs must meet the general requirements as outlined as well as any additional requirements specified by the major field of study.

For current advising information, including research and funding opportunities, consult the SF State Biology Department website at biology.sfsu.edu. (http://biology.sfsu.edu)

General Admission Requirements
An applicant must have a baccalaureate degree from an accredited institution and the equivalent major coursework for the program area to which application is made. To evaluate an applicant, the biology department requires the following:

1. transcripts of all undergraduate work;
2. Graduate Record Examination scores for the general test;
3. a statement of purpose;
4. two or more letters of recommendation, preferably from science faculty.

When the department receives this information, the completed file is forwarded to the faculty coordinator of the program area chosen by the applicant. The faculty in the program area evaluate the applicant's file and recommend admission or denial based on the following criteria:

• Grade point average in the undergraduate major—minimum required GPA in science courses is 3.0
• Statement of purpose
• GRE scores
• Letters of recommendation

Denial of admission may be based on inadequacy in any of the above criteria, if an applicant’s interests are not represented by current faculty, or if faculty in the applicant’s area of interest are unable to support additional students.

Written English Proficiency Requirement
The University has a requirement for written English proficiency that is to be assessed at two levels.

Level One
The student must pass a proctored essay test administered by the department at the beginning of the first semester.

Level Two
Prior to filing the Advancement to Candidacy (ATC), the student must prepare a thesis prospectus for approval by the student’s thesis committee.

Biology (M.S.): Concentration in Cell and Molecular Biology – 30 units

Required Courses (13 units)

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 700</td>
<td>Introduction to Research Skills</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 861</td>
<td>Advances in Cell and Molecular Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 870</td>
<td>Biology Colloquium</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 897</td>
<td>Research</td>
<td>6</td>
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Electives (13 units)
The elective course requirements shall be determined by the student’s committee and are based upon considerations such as goals, interests, and undergraduate preparation. Upper-division Biology courses are acceptable with the approval of the graduate advisor. Students are reminded to check the individual concentrations for additional requirements.

Culminating Experience (4 units)
Select one:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 895</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 898</td>
<td>Master’s Thesis</td>
<td>4</td>
</tr>
</tbody>
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• All courses taken to satisfy conditional requirements or listed on the Advancement to Candidacy (ATC) must be completed with a letter grade. The culminating experience courses, BIOL 895 and BIOL 898, are the exception and will be graded on a CR/NC basis.
• A minimum of 30 units of upper-division and/or graduate credit. May include up to 6 units of experimental courses in Biology.
• A minimum of 21 units of the 30 total must be from graduate-level or paired courses. Six units may be from paired courses.
• A maximum of 6 units of BIOL 897 is allowed when filling for Advancement to Candidacy (ATC).
• A maximum of 2 units of BIOL 881 is allowed when filling for Advancement to Candidacy (ATC).
• An oral defense of the thesis or research project is required.