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 home page at biology.sfsu.edu.

General Admission Requirements

An applicant must have a baccalaureate degree from an accredited institution and the equivalent major course work 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.

Concentration in Cell and Molecular Biology

This concentration is designed for students preparing for future graduate work as well as for those wishing to increase their competency in the fields of cell and molecular biology. It emphasizes the study of cells, cell organelles, macromolecules, and the regulation of their production and interaction. As such, it represents an expanding frontier of research that integrates biochemistry, biophysics, genetics, developmental biology, and cell ultrastructure. Each faculty member serves as advisor and major professor for students working on research programs in the faculty member’s area of specialization.

The specific course requirements shall be determined by the student’s committee and are based upon consideration such as goals, interests, and undergraduate preparation. A strong background in chemistry is highly recommended.

Course Requirements

The general requirements of all students are as follows: