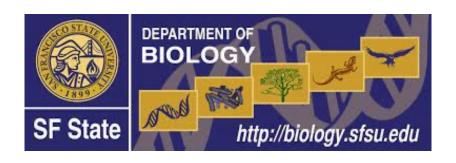
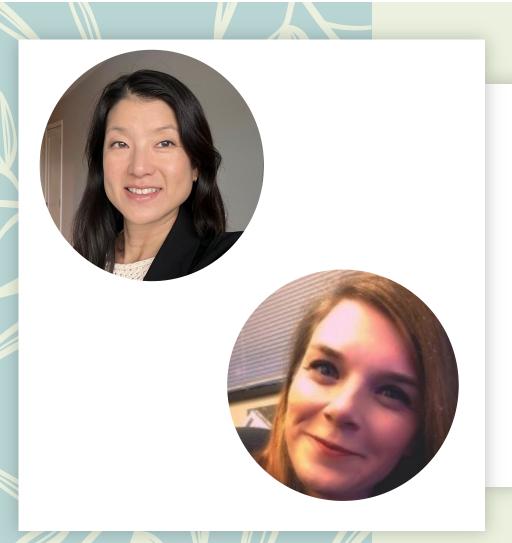
Grad Preview 2025!

Department of Biology San Francisco State University







Graduate Program contacts: Dr. Andrea Swei and Giovanna Tuccori

Questions about the program application process, can be directed to us.

We can be reached at biograd@sfsu.edu

Biology Concentration Coordinators

Concentration coordinators



Cell & Molecular Biology (CMB): Dr. Ivan Anastassov, on leave 2025-2026

Integrative Biology (IB): Dr. Robert Boria





Physiology and Behavioral Biology: Dr. Robyn Crook

Professional Science Masters (PSM): Dr. Lily Chen



Biology Graduate Degrees – thesis based

Cell and Molecular Biology

 consolidates CMB, CMB-Stem Cell, and Microbiology concentrations

Integrative Biology

consolidates EECB and Marine Biology concentrations

Physiology and Behavior

Physiology and behavior concentrations



San Francisco State University A Y 2 0 2 5



California Institute for Regenerative Medicine San Francisco State University Bridges Stem Cell Science Master's Program

Biology Graduate Professional degree

Training for a degree in biotech



Preparing Future Researchers to Advance Regenerative Medicine, Stem Cell Therapy and Gene Editing Technologies

- One-year biomedical science graduate training fellowship.
- A graduate training program provides a solid foundation to prepare a broadly inclusive, well-trained life science workforce in stem cell biology and regenerative medicine.
- Prepares a diverse cadre of students through combining academic training, hands-on research opportunities with strategic and structured mentorship experience.

Program Highlights

- 2-year Master of Science program in Biomedical Science (Stem cell Science or Biotechnology)
- Academic coursework in stem cell biology, cell molecular biology, biotechnology, data science and management.
- 12-month master's internship project in stem cell research, regenerative medicine, cell therapy or gene editing.
- Internship research training opportunities at UCSF, Stanford, UC Berkeley, Gladstone Institutes and Bay Area biotech companies.
- 1 year CIRM fellowship includes \$36,000 stipends, \$8,000 tuitions, \$3,300 research-related funds and \$1,000 conference travel.

 ${\bf Application~Weblink} \\ https://sfsu.col.qualtrics.com/jfe/form/SV_b8lkxqPpghANoA6$





Program Website

https://psm.sfsu.edu/cirm-bridges-science-masters-program-2022-2027 https://biology.sfsu.edu/graduate-programs-1

Contact

Dr. Lily Chen – Program Director (415) 338 – 6763; <u>lilychen@sfsu.edu</u>

Biology Department: biograd@sfsu.edu

Application Process

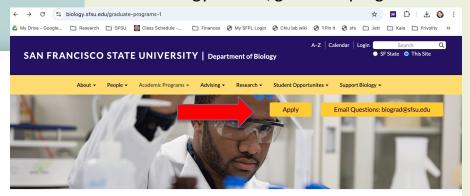
Prerequisites:

Must have completed a bachelor's degree and have a minimum 3.0 GPA (exceptions can be granted)

Application:

Apply by February 1, 2026 at Cal State Apply (calstate.edu/apply)
Personal Statement of Purpose
All Science transcript
Letters of recommendation (minimum 2)

Biology.sfsu.ed/graduate-programs-1



Graduate Programs

The SF State Department of Biology community provides a rich academic experience for graduate students through peer collaboration, hands-on mentored research training, and a rigorous curriculum focused on discussion-style courses and seminars. Altogether, our programs provide an effective springboard to enable our graduate students to further their professional careers in academic research, education, environmental consulting, governmental agencies, biotechnology, health professions and more.

Identifying a research mentor

All graduate students must have a mentor that has accepted them into their labs. Contact potential mentors to see if they are a good research fit and have space for new students. We have 40+ labs to choose from in 18+ disciplines including the California Academy of Science.

How to identify a mentor

Faculty by Research Discipline

Our faculty have published 2,305 peer-reviewed scientific studies and have accumulated over 135,068 scientific citations!

Click on the headings below to view faculty members whose research labs are on the main campus of SFSU in the Department of Biology. We also have affiliated faculty who can supervise research at the Estuary & Ocean Science Center and at the California Academy of Sciences.



- Search by research discipline on Biology website: biology.sfsu.edu/faculty/field
- Research alignment
- Fit and mentoring style
- Persistence! Email repeatedly!

Biology Graduate Program

Focus of Master's program is on the research thesis



Biology Graduate Program Curriculum

CORE =15 units

- 3 units Introduction to Research Skills BIOL700
- 2 units Biology Colloquium BIOL870
- 6 units Research BIOL897
- 4 units Culminating Experience (CE) BIOL895/898

Concentration specific seminar = 2 units

• 2 units of Seminar: BIOL861 (CMB), BIOL862 (IB), BIOL865 (PB)

Electives =13 units

• 13 units (decided with your advisor)

Biology (M.S.): Concentration in Integrative Biology - 30 units Required Courses (17 units)

Code	Title	<u>Units</u>
BIOL 700	Introduction to Research Skills	3
BIOL 870	Biology Colloquium	2 Spread out over 3 semesters and is
BIOL 897	Research	6 the individualized research
Culminating BIOL 895 BIOL 898	Experience (the thesis) Research Project or Master's Thesis	activities Based on advisor's lab. Includes a written thesis and oral defense
BIOL 862	Advances in Ecology and Systematic Biology	2
Total of Required Courses Electives		1713 Discuss what to take with your advisor. Should support thesis.
Total for Degree		30

Biology (M.S.): Concentration in Physiology and Behavioral Biology - 30 units

Required Courses (13 units)

Code	Title	Unit	<u>'S</u>
BIOL 700	Introduction to Research Skills	3	
BIOL 870	Biology Colloquium	2	
BIOL 897	Research	6	Spread out over 3 semesters
Culminating BIOL 895 BIOL 898	g Experience Research Project or Master's Thesis	4	Discuss which on you should take with your advisor
BIOL 865	Advances in Ecology and Systematic Biology	2	
Total of Required Courses Electives		17 13	Discuss what to take with your advisor.
Total for Degree		30	

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

Required Courses (13 units)

<u>Code</u>	Title	<u>Units</u>
BIOL 700	Introduction to Research Skills	3
BIOL 870	Biology Colloquium	2
BIOL 897	Research	6 Spread out over 3 semesters
Culminating BIOL 895 BIOL 898	g Experience Research Project or Master's Thesis	Discuss which on you should take with your advisor
BIOL 861	Advances in Cell and Molecular Biology	2
Total of Required Courses Electives		17 13 Discuss what to take with your advisor.
Total for Degree		30

Graduate Program Requirements

- A minimum of 30 units of upper-division upper division and/or graduate credit.
- Required 17 units for each concentration (15 core, 2 concentration specific)
- Additional 13 units of electives
- An oral defense of the thesis or research project is required.
- Written thesis paper or manuscript is also required

13 units of Electives

700 and above – graduate level classes

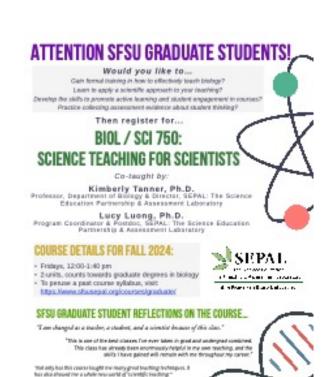
Some examples:

BIOL 738 Bioinformatics and Sequence Analysis

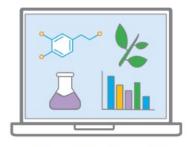
BIOL 716 Skills for Scientific Proposal Writing (Spring 2025)

BIOL 750 Scientific Teaching for Scientists

Biol 806/808 GOLD program courses



These gained confidence in my ability to back Seably a inventively and to experiment with new approach.



GOLD





Dr. Nicole Adelstein GOLD coordinator nicoleal@sfsu.edu



Check out the GOLD website: https://biology.sfsu.edu/gold

Talk to your advisor about whether GOLD is right for you!

The Graduate Certificate in Data Science for Biology and Chemistry

- 1. Work with your advisor to develop a thesis research project.
- 2. Assemble a thesis/project committee
- 3. Review your Individual Development Plans (IDPs) with your PI/advisor.



Semester 1

- 1. Work with your advisor to develop a thesis research project.
- 2. Assemble a thesis/project committee
- 3. Review your Individual Development Plans (IDPs) with your PI/advisor.

50

- 1. Present thesis prospectus to your committee.
- 2. Research!

Semester 1

- 1. Work with your advisor to develop a thesis research project.
- 2. Assemble a thesis/project committee
- 3. Review your Individual Development Plans (IDPs) with your PI/advisor.

Semester 3

- 1. Check in with your thesis/project committee to make sure you are making good progress.
- 2. File your Culminating Experience Form and Advancement to Candidacy.



- 1. Present thesis prospectus to your committee.
- 2. Research!

Semester 1

- 1. Work with your advisor to develop a thesis research project.
- 2. Assemble a thesis/project committee
- 3. Review your Individual Development Plans (IDPs) with your PI/advisor.

Semester 3

- 1. Check in with your thesis/project committee to make sure you are making good progress.
- 2. File your Culminating Experience Form and Advancement to Candidacy.



Semester 2

- 1. Present thesis prospectus to your committee.
- 2. Research!

- 1. Check in with your thesis/project committee.
- 2. Enroll in Biology 895 or 898.
- 3. Write, Defend and File your master's thesis/project.
- 4. Apply to graduate

Semester 1

- 1. Work with your advisor to develop a thesis research project.
- 2. Assemble a thesis/project committee
- 3. Review your Individual Development Plans (IDPs) with your Pl/advisor.

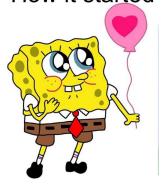
Semester 3

- 1. Check in with your thesis/project committee to make sure you are making good progress.
- 2. File your Culminating Experience Form and Advancement to Candidacy.





How it started



Semester 2

- 1. Present thesis prospectus to your committee.
- 2. Research!

- 1. Check in with your thesis/project committee.
- 2. Enroll in Biology 895 or 898.
- 3. Write, Defend and File your master's thesis/project.
- 4. Apply to graduate

Funding – check out the manual!

- Student Enrichment Office, CoSE, Biology
- Bio Newsletter
- **Handshake** job and internship opportunities
- SFSU Academic works sfsu.academicworks.com



Funding Opportunities

Quick Link Navigation to Funding Opportunities

San Francisco State University **Student Enrichment Opportunities**



Application Period: Dec 1 - Feb 15 for following Academic Year

For application information see the SEO website: https://seo.sfsu.edu/

For questions, contact seo@sfsu.edu, or 415-338-1305, or join our Zoom office hours on Wednesdays from 1-3 PM.



For majors in Biology, Chemistry & Biochemistry, Computer Science, Engineering, Mathematics, or Physics interested in pursuing an advanced degree in a biomedical field.

Complete ONE application for multiple SEO scholarships

Undergraduate Scholarships for Juniors & Seniors Graduate Fellowships for 1st & 2nd year MS students









Scholarship programs to prepare students from underrepresented groups including those with disabilities for competitive biomedical PhD programs or advanced professional degrees through academic support and stimulating research experiences. Students with DACA and AB 540 status are eligible to apply for the Genentech Foundation Scholarships.

Student Organizations

BE-STEM

Black Excellence in STEM
Stephanie Uzordinma Awuzie

SACNAS

Society for the Advancement of Chicanos and Native Americans in Science
Maureen Montes and Ashley Meinke

WISE

Women in Science and Engineering



Breakout room with Biology Concentration Coordinators

Concentration coordinators

Cell & Molecular Biology (CMB): Dr. Ivan Anastassov



Integrative Biology (IB): Dr. Robert Boria



Physiology and Behavioral Biology: Dr. Robyn Crook

Professional Science Masters (PSM): Dr. Lily Chen

