

Articulation Agreement by Major

Effective during the 2019-2020 Academic Year

To: San Francisco State University
2019-2020 General Catalog, Semester

From: Foothill College
2019-2020 General Catalog, Quarter

Biology: General, B.A.

IMPACTION UPDATE

Effective Fall 2020, impaction status is discontinued for all degree programs in Biology. Regular admission criteria in effect for those applying for the Fall 2020 term and beyond.

ASSOCIATE DEGREE FOR TRANSFER INFORMATION

The AS-T in Biology (SB 1440 degree) is an approved transfer pathway for this major. Visit [SF State ADT Pathways and Roadmaps](#) for a list of all approved ADT pathways for SF State degree programs and to view sample post-transfer advising roadmaps for each pathway.

Students preparing to transfer into this major at SF State should complete any available articulated courses in the Requirement section(s) below. Completion of the American Institutions requirement (US-1, US-2, US-3) before transfer is also strongly recommended.

NOTE: At least one semester of organic chemistry is required for all Biology degree programs.

PREPARATION NOTE

1. Students planning graduate-level study in this discipline or preparing for the medical, dental or pharmacy professions should complete two semesters of calculus, two semesters of organic chemistry with lab, and a semester of physical chemistry.

2. Completion of a course equivalent to CHEM 115 before transfer is recommended. Note that all students are required to take a department-administered placement exam for CHEM 115 at SF State. *Students may enroll for CHEM 115 prior to taking the exam.* This exam is offered on two dates prior to the start of each semester. [More information about the placement exam here.](#)

EXTERNAL EXAMINATION CREDIT

Credit for Advanced Placement available for students in this major with qualifying scores. [More information here.](#)

CATALOG INFORMATION

San Francisco State University Bulletin (catalog): <http://bulletin.sfsu.edu>

- **Academic Programs:** Major and minor programs
- **Undergraduate Education:** GE and other graduation requirements; AP/IB/CLEP
- **Course Index:** Course descriptions

CONTACT

Visit the department [website](#)

Send questions regarding articulation to artic@sfsu.edu

LOWER DIVISION MAJOR REQUIREMENTS

Minimum grade required: C- or better
Must be taken for a letter grade

BIOL 230 - Introductory Biology I (5.00)

--- And ---

BIOL 240 - Introductory Biology II (5.00)

- *If the entire sequence is not completed prior to transfer, students must consult the department advisor prior to enrollment*



BIOL 1A - Principles of Cell Biology (6.00)

--- And ---

BIOL 1B - Form & Function in Plants & Animals (6.00)

--- And ---

BIOL 1C - Evolution, Systematics & Ecology (6.00)

CHEM 115 - General Chemistry I: Essential Concepts of Chemistry (5.00)



CHEM 1A - General Chemistry (5.00)

--- And ---

CHEM 1B - General Chemistry (5.00)

--- Or ---

CHEM 1A - General Chemistry (5.00)

--- And ---

CHEM 1BH - Honors General Chemistry (5.00)

--- Or ---

CHEM 1AH - Honors General Chemistry (5.00)

--- And ---

CHEM 1BH - Honors General Chemistry (5.00)

--- Or ---

CHEM 1AH - Honors General Chemistry (5.00)

--- And ---

CHEM 1B - General Chemistry (5.00)

CHEM 130 - General Organic Chemistry (3.00)



CHEM 12A - Organic Chemistry (4.00)

--- And ---

CHEM 12B - Organic Chemistry (4.00)

--- Or ---

CHEM 233 - Organic Chemistry I (3.00)



CHEM 12A - Organic Chemistry (4.00)

--- And ---

CHEM 12B - Organic Chemistry (4.00)

CHEM 215 - General Chemistry II: Quantitative Applications of Chemistry Concepts (3.00)



CHEM 1B - General Chemistry (5.00)

--- And ---

CHEM 1C - General Chemistry & Qualitative Analysis (5.00)

--- Or ---

CHEM 1BH - Honors General Chemistry (5.00)

--- And ---

CHEM 1C - General Chemistry & Qualitative Analysis (5.00)

PHYS 111 - General Physics I (3.00)



PHYS 2A - General Physics (5.00)

--- And ---

PHYS 2B - General Physics (5.00)

PHYS 112 - General Physics I Laboratory (1.00)



PHYS 2A - General Physics (5.00)

--- And ---

PHYS 2B - General Physics (5.00)

PHYS 121 - General Physics II (3.00)



PHYS 2B - General Physics (5.00)

--- And ---

PHYS 2C - General Physics (5.00)

PHYS 122 - General Physics II Laboratory (1.00)



PHYS 2B - General Physics (5.00)

--- And ---

PHYS 2C - General Physics (5.00)

Select 1 Course(s) from the following

MATH 124 - Elementary Statistics (3.00)



MATH 10 - Elementary Statistics (5.00)

--- Or ---

MATH 17 - Integrated Statistics II (5.00)

--- Or ---

PSYC 7 - Statistics for the Behavioral Sciences (5.00)

Same-As: SOC 7

--- Or ---

SOC 7 - Statistics for the Behavioral Sciences (5.00)

Same-As: PSYC 7

MATH 226 - Calculus I (4.00)



MATH 1A - Calculus (5.00)

--- And ---

MATH 1B - Calculus (5.00)

--- Or ---

MATH 1AH - Honors Calculus I (5.00)

--- And ---

MATH 1B - Calculus (5.00)

--- Or ---

MATH 1A - Calculus (5.00)

--- And ---

MATH 1BH - Honors Calculus II (5.00)

--- Or ---

MATH 1AH - Honors Calculus I (5.00)

--- And ---

MATH 1BH - Honors Calculus II (5.00)

END OF AGREEMENT