BACHELOR OF SCIENCE IN BIOLOGY: CONCENTRATION IN ECOLOGY – BIOL ASSOCIATE DEGREE FOR TRANSFER ROADMAP

This is a sample pathway for students who transfer to San Francisco State University in the current Bulletin year with an AS-T in Biology. Thirty-two units in the major (BIOL 230/BIOL 240, CHEM 115/CHEM 215/CHEM 216, MATH 226, required PHYS sequence) and 33 units of lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

Course | Title | Units
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First Semester
BIOL 529GW | Plant Ecology - GWAR | 4
CHEM 130 | General Organic Chemistry | 3
GE Area A: Written English Communication II (A4) | 3
Take University Elective if requirement met in transfer | 1
GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3) | 3
US History (bulletin.sfsu.edu/undergraduate-education/graduation-requirements/#USHaGR) | 3
or University Elective if US History met before transfer | 1
Second Semester
BIOL 355 | Genetics | 3
BIOL 458 | Biometry | 4
GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3) | 3
GE Area UD-C: Upper-Division Arts and/or Humanities (Consider SF State Studies Course) | 3
University Elective | 1
Third Semester
BIOL 337 | Evolution | 3
BIOL 525 or BIOL 630 | Plant Physiology or Animal Physiology | 3
Major Upper-Division Requirement – upon advisement (6-8 units) | 3-4
GE Area UD-D: Upper-Division Social Sciences (Consider SF State Studies Course) | 3
Major Upper Division Elective | 3

Fourth Semester
Major Division Electives | 11
Major Upper-Division Requirement – upon advisement (6-8 units) | 3-4
Units | 15
Total Units | 61

To Do at SF State:

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University-Wide Requirements: 12–21 Units
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): See next bullet.
- Lower division GE (6 units) – Area C (3 units in any subarea) and Area D (3 units; D2 satisfies US History if needed; D3 satisfies US/CA Government requirement if needed)
- Upper division GE (6 units to do): 1) Major course satisfies UD-B. 2) Take UD-C and UD-D courses. See notes.
- Students entering this major with the AS-T in Biology are not required to fulfill SF State Studies or Complementary Studies requirements.

Biology – Ecology Major: 38 Units
Completed: BIOL 230/BIOL 240, MATH 226, all PHYS, and CHEM 115/CHEM 215/CHEM 216.
- Lower Division requirements (3 units): CHEM 130
- Major Upper Division Requirements/GWAR (21 units)
- Major Upper Division Electives (14 units) – upon advisement.

University Electives: Three or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course
choices at SF State. Some courses may meet more than one requirement, e.g., in both UD GE and the major.