This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 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.

### Course Title | Units
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**First Semester**
BIOL 529GW | Plant Ecology · GWAR
CHEM 130 | General Organic Chemistry
GE Area A: Written English Communication II (A4) or University Elective if A4 met in transfer | 3
US History (bulletin.sfsu.edu/undergraduate-education/graduation-requirements/#USHaGR) or University Elective if US History met before transfer | 3
GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3) | 3
**Units** | **16**

**Second Semester**
BIOL 355 | Genetics
BIOL 458 | Biometry
BIOL 525 | Plant Physiology
Upper Division GE: UD-C or UD-D | 3
GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3) | 3
**Units** | **16**

**Third Semester**
BIOL 337 | Evolution
BIOL 504 | Biology of the Fungi
BIOL 526 | Plant Molecular Physiology Laboratory
Upper Division GE: UD-C or UD-D | 3
University Elective | 2
**Units** | **14**

**Fourth Semester**
BIOL 500 or BIOL 505 | Evolution and Diversity of Plants or Comparative Anatomy of Vascular Plants
Major Upper Division Electives | 7
University Elective or UD-C or UD-D if needed | 3
**Units** | **14**

**Total Units** | **60**

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1. If ENG 214 equivalent not taken before transfer, GWAR course must be taken in a subsequent semester; this may impact timely progress to degree.
2. Some GE Area UD–C: Upper Division Arts and/or Humanities courses also satisfy US History. Check the Class Schedule.
3. BIOL 355 satisfies GE Area UD–B: Upper Division Physical and/or Life Sciences.
Select upper division electives in consultation with an advisor.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**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 – Botany Major: 37 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 (27 units)
- Major Upper Division Electives (7 units) – see note 4.

**University Electives: Two 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.