

BACHELOR OF SCIENCE IN COMPUTER SCIENCE – COMP 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 Computer Science. 29 units in the major (MATH 226, MATH 227, PHYS 220/PHYS 222, PHYS 230/PHYS 232, CSC 210, CSC 211, CSC 220, CSC 230, CSC 256) and all lower division GE requirements have been satisfied. Additional units in the major may 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
First Semester		
CSC 300GW	Ethics, Communication, and Tools for Software Development - GVAR	3
CSC 340	Programming Methodology	3
MATH 324	Probability and Statistics with Computing	3
MATH 325	Linear Algebra	3
University Elective		3
		Units
		15
Second Semester		
CSC 317	Introduction to Web Software Development	3
CSC 413	Software Development	3
CSC 510	Analysis of Algorithms I	3
GE Area UD-C: Upper-Division Arts and/or Humanities ¹		3
University Elective		3
		Units
		15
Third Semester		
CSC 415	Operating System Principles	3
CSC 600	Programming Paradigms and Languages	3
Major Elective - Take Two		6
GE Area UD-B: Upper-Division Physical and/or Life Sciences ¹		3
		Units
		15
Fourth Semester		
CSC 648	Software Engineering	3
Major Elective – Take Two		6
GE Area UD-D: Upper-Division Social Sciences		3
University Elective		3
		Units
		15
		Total Units
		60

¹ If US History and/or US/CA Government not met, these courses satisfy multiple areas:
 UD-C and US History – HIST 449, HIST 455, HIST 465 HIST 466, HIST 478, HIST 484, JS 449, MUS 506, MUS 559, TH A 559
 UD-C, US History, and US/CA Government – HIST 470, HIST 471
 UD-D and US History – AIS 460, HIST 466, RRS 600
 UD-D and CA Government – HIST 450

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 30 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9-15 Units

- American Institutions (0-6 units): US History, US Government, CA Government. If not met in transfer, see next bullet.
- Upper division GE (9 units): Courses may satisfy the US History or US/CA Government requirements, and UD-C or UD-D at the same time, if approved for multiple areas. Check Note 1.
- Students entering the major with the AS-T in Computer Science are not required to fulfill SF State Studies and Complementary Studies requirements.

Computer Science Major: 42 Units

MATH 226/MATH 227, PHYS 220/PHYS 222/PHYS 230/PHYS 232, and CSC 210/CSC 211/CSC 220/CSC 230/CSC 256 met in transfer.

- Mathematics: 6 units
- Core/GWAR: 12 units
- Advanced CSC requirements: 24 units, including electives.
- Senior Presentation: required oral presentation during senior year (0 units)

University Electives: Eight 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 in the major.