BACHELOR OF SCIENCE IN
APPLIED MATHEMATICS –
MATH 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 Mathematics. At least 12 units in the major (MATH 226, MATH 227, MATH 228) 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 210 or CSC 309 | Introduction to Computer Programming or Computer Programming for Scientists and Engineers | 3
MATH 325 | Linear Algebra | 3
MATH 440 | Probability and Statistics I | 3
GE Area A: Written English Communication II (A4) or University Elective if A4 was met in transfer | 3
Upper Division GE: UD-B, UD-C, or UD-D | 3

Units | 15

Second Semester
MATH 301GW Exploration and Proof - GWAR | 3
MATH 324 or MATH 441 Probability and Statistics with Computing or Probability and Statistics II | 3
MATH 400 | Numerical Analysis | 1
Major Emphasis – On Advisement | 3
US History (bulletin.sfsu.edu/undergraduate-education/graduation-requirements/#USHaGR) or University Elective if US History met before transfer | 3

Units | 15

Third Semester
MATH 335 or MATH 370 Modern Algebra or Real Analysis I | 3
MATH 376 Ordinary Differential Equations I | 3
MATH 460 Mathematical Modeling | 3

Units | 15

MATH 696 Applied Mathematics Project I | 1
U.S. and California Government (bulletin.sfsu.edu/undergraduate-education/graduation-requirements/#usg) or University Elective if US/CA Government met before transfer | 3
Upper Division GE: UD-B, UD-C, or UD-D | 3

Units | 16

Fourth Semester
MATH 697 Applied Mathematics Project II | 2
Major Elective | 3
Major Emphasis on advisement – Take Two | 6
Upper Division GE: UD-B, UD-C, or UD-D | 3

Units | 14

Total Units | 60

1 MATH 400 and MATH 441 offered spring semesters only.
2 MATH 376 offered fall semesters only.

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: 9-18 Units
- ENG 214 or equivalent A4 course (0-3 units) if not taken before transfer
- American Institutions (0-6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units)
- Students entering the major with the AS-T in Mathematics are not required to fulfill SF State Studies or Complementary Studies requirements.

Applied Mathematics Major: 39-42 Units
MATH 226-MATH 227-MATH 228 met in transfer; CSC 210 may have been met in transfer.
- Required Courses (24-27 units)
- Major Electives (15 units), including three courses emphasizing applications of mathematics, chosen on advisement

University Electives: Zero 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., UD GE and the major.