

BA Degree in Mathematics - Mathematics for Advanced Study (674709)

Minimum Number of Units in Major = 48

Bulletin URL: <http://www.sfsu.edu/~bulletin/current/programs/math.htm#674709> Key to Course Abbreviations: <http://www.sfsu.edu/~admisrec/reg/noindex/crsabbrev.html>

1st Semester Requirements

| Requirement | Recommended Courses | Units |
|--|---------------------|-----------|
| University Basic Information Competence | | 3 |
| University Written English Proficiency | ENG 114 | 3 |
| GE 1 Oral Communication | COMM 150 | 3 |
| GE 1 Quantitative Reasoning also satisfies Major Core (See Note 1) | MATH 226 | 4 |
| GE 2 Behavioral and Social Sciences | | 3 |
| GE 2 Humanities and Creative Arts | | 3 |
| 1st Semester Total | | 16 |

Note: Review the Bulletin for GE II requirements in the following areas:
 LLD-Lifelong Development; AERM-American Ethnic and Racial Minorities; L/F-Laboratory or Fieldwork

2nd Semester Requirements

| Requirement | Recommended Courses | Units |
|--|-----------------------|-----------|
| GE 1 Critical Thinking | | 3 |
| GE 2 Physical and Biological Sciences, Category A or B | | 3 |
| Major Core | MATH 227 | 4 |
| Major Core | MATH 301 | 3 |
| Major Concentration | CSC 209 or CSC 210 | 3 |
| 2nd Semester Total | | 16 |

3rd Semester Requirements

| Requirement | Recommended Courses | Units |
|--|---------------------|-----------|
| US History | | 3 |
| GE 1 Written Communication also satisfies University Written English Proficiency | ENG 214 | 3 |
| GE 2 Behavioral and Social Sciences | | 3 |
| Major Core | MATH 228 | 4 |
| Major Core | MATH 325 | 3 |
| 3rd Semester Total | | 16 |

4th Semester Requirements

| Requirement | Recommended Courses | Units |
|--|---------------------|-----------|
| US Government and California | | 3 |
| GE 2 Physical and Biological Sciences, Category A or B | | 3 |
| GE 2 Humanities and Creative Arts | | 3 |
| Major Core | MATH 335 | 3 |
| Major Concentration | MATH 340 | 3 |
| 4th Semester Total | | 15 |

Note: Take JEPET after 48 units earned to satisfy Written English Proficiency.

5th Semester Requirements

| Requirement | Recommended Courses | Units |
|---|---------------------|-----------|
| GE 2 Physical and Biological Sciences, Category C | | 3 |
| GE 2 Humanities and Creative Arts | | 3 |
| GE 3 | | 3 |
| Major Core | MATH 370 | 3 |
| Major Concentration | MATH 435 | 3 |
| 5th Semester Total | | 15 |

6th Semester Requirements

| Requirement | Recommended Courses | Units |
|--|-------------------------|-----------|
| University Written English Proficiency (if required) or University Elective | ENG 414 | 3 |
| GE 3 | | 3 |
| Major Concentration | MATH 310 or MATH 376 | 3 |
| Major Concentration | MATH 470 or MATH 471 | 3 |
| University Elective | | 3 |
| 6th Semester Total | | 15 |

7th Semester Requirements

| Requirement | Recommended Courses | Units |
|-------------------------------------|---------------------|-----------|
| GE 2 Behavioral and Social Sciences | | 3 |
| GE 3 | | 3 |
| Major Concentration | MATH 380 | 3 |
| Major Concentration Elective | | 3 |
| University Elective | | 3 |
| 7th Semester Total | | 15 |

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8th Semester Requirements

| Requirement | Recommended Courses | Units |
|------------------------------|---------------------|-----------|
| Major Concentration Elective | | 3 |
| University Elective | | 3 |
| University Elective | | 3 |
| University Elective | | 3 |
| 8th Semester Total | | 12 |

Note: Notes: A minimum of 40 upper division units must be completed for degree.

Note 1: If MATH 109 Precalculus is required, take it in 1st semester followed by MATH 226, 227, 228 sequence in semesters 2 through 4. Consult with major advisor regarding appropriate sequencing of other major courses.

Department Website: <http://math.sfsu.edu/>