

A Major Academic Plan (MAP) is one way to complete a degree in a set number of semesters. The *example* below is only one strategy. Actual plans for individual students will vary based on advisor recommendations and academic needs. Official Program Requirements including Major, General Education, Electives, and university requirements (see pg.2) are based on Catalog Year.

| Course Subject and Title | Cr. | Min. Grade | *GE, UU or UM | **Sem. Offered | Prerequisite | Co-Requisite |
|--|-----------|------------|---------------|----------------|--|--------------|
| Semester One | | | | | | |
| GE Objective 3: MATH 1170 Calculus I | 4 | C- | GE | F, S, Su | Math 1144 or Math 1147 or appropriate placement score | |
| GE Objective 1: ENGL 1101 English Writing and Rhetoric I | 3 | C- | GE | F, S, Su | Appropriate placement score | |
| GE Objective 4: | 3 | | GE | F, S, Su | | |
| GE Objective 6: | 3 | | GE | F, S, Su | | |
| Free Electives | 1 | | | | | |
| Total | 14 | | | | | |
| Semester Two | | | | | | |
| MATH 1175 Calculus II | 4 | C- | | F, S, Su | Math 1170 | |
| MATH 2240 Linear Algebra | 3 | C- | | F, S, Su | Math 1170 | |
| GE Objective 7: CS 1181 CS & Programming I | 3 | C- | GE | F, S | Math 1143 or Math 1144 or Math 1147 or CS 1111 and Math 1108 or MGT 1116 | |
| GE Objective 1: ENGL 1102 Writing and Rhetoric II | 3 | | GE | F, S, Su | ENGL 1101 or equivalent | |
| GE Objective 4: | 3 | | GE | F, S, Su | | |
| Total | 16 | | | | | |
| Semester Three | | | | | | |
| MATH 2275 Calculus III | 4 | C- | | F, S | Math 1175 | |
| MATH 3360 Differential Equations | 3 | C- | UM | F, S | Math 1175; MATH 2240 or Math 2275 recommended | |
| GE Objective 2: | 3 | | GE | F, S, Su | | |
| GE Objective 5: No lab | 3 | | GE | F, S, Su | | |
| Free Electives | 2 | | | | | |
| Total | 15 | | | | | |
| Semester Four | | | | | | |
| MATH 3326 Elementary Analysis | 3 | C- | UM | F, S | Math 1175 and either Math 2240 or Math 2287 | |
| MATH 3310 Mathematical Modeling | 3 | | | S | Math 1175, and either CS1181 or ME 1165 | |
| GE Objective 6: | 3 | | GE | F, S, Su | | |
| GE Objective 9: | 3 | | GE | F, S, Su | | |
| Free Electives | 3 | | | | | |
| Total | 15 | | | | | |
| Semester Five | | | | | | |
| MATH 4421 Advanced Engineering Mathematics*** | 3 | C- | UM | F | Math 3360 | |
| MATH 4441 Introduction to Numerical Analysis I*** | 3 | C- | UM | OF | Math 2240, Math 3326, Math 3360 | |
| GE Objective 5: w/lab | 4 | | GE | F, S, Su | | |
| Free Electives | 5 | | | | | |
| Total | 15 | | | | | |
| Semester Six | | | | | | |
| MATH 3352 Introduction to Probability*** | 3 | C- | UM | F, S | Math 1175 | |
| Applied Mathematics Elective (see list) | 3 | | UM | | See Catalog. | |
| Free Electives | 9 | | GE | | | |
| Total | 15 | | | | | |
| Semester Seven | | | | | | |
| MATH 4423 Introduction to Real Analysis*** | 3 | C- | UM | F | Math 2240 and Math 3326 | |
| Applied Mathematics Elective (see list) | 3 | | UM | F | See Catalog. | |
| Free Electives | 9 | | | | | |
| Total | 15 | | | | | |
| Semester Eight | | | | | | |
| Applied Mathematics Elective (see list) | 3 | | UM | | See Catalog. | |
| Upper Division Free Electives | 6 | | UU | | | |
| Free Electives | 6 | | | | | |
| Total | 15 | | | | | |

* GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major

** See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.)

*** This course will be a prerequisite for some of the elective options within this major.

