I. **Required Mathematics Courses** (17 credits)

A. **Calculus:**
   
   **PATH 1:**  
   MATH 1205 Calculus 3 ( )
   MATH 1206 Calculus 3 ( )
   MATH 1224 Vector Geometry 2 ( )

   **PATH 2:**  
   MATH 1225 Calculus of a Single Variable 4 ( )
   MATH 1226 Calculus of a Single Variable 4 ( )

B. **Multivariable Calculus:** One of the following:
   
   **PATH 1:** MATH 2224 Multivariable Calculus 3 ( )
   **PATH 2:** MATH 2204 Introduction to Multivariable Calculus 3 ( )

Note: CMDA 2005 Integrated Quantitative Sciences (6) may be substituted for either MATH 2204 or 2224

C. **Linear Algebra:**
   
   MATH 2114 Introduction to Linear Algebra 3 ( )

D. **ODE’s:**
   
   MATH 2214 Introduction to Differential Equations 3 ( )

Note: CMDA 2006 Integrated Quantitative Sciences (6) may be substituted for MATH 2214.

II. **Math Electives** (9 credits)

Any 9 hours of MATH courses numbered 3000 or higher with the following exceptions.

- MATH 2534 Introduction to Discrete Mathematics (3) may be used.
- The following may *not* be used:
  - MATH 3054 Programming For Mathematical Problem Solving (3)
  - MATH 4044 History Of Mathematics (3)
  - MATH 4625, 4828 Mathematics For Secondary Teachers (3)
  - MATH 4644 Secondary School Mathematics With Technology (3)
  - MATH 4684 Senior Math Education Seminar (2)
  - MATH 4974 Independent Study (variable)
  - MATH 4994 Undergraduate Research (variable).
- CMDA 3605-3606 Mathematical Modeling: Methods and Tools and CMDA 4604 Intermediate Topics in Mathematical Modeling may be used.

   3 ( )  3 ( )  3 ( )

Note: Enrollment opportunities in some of these courses may be limited for non-majors.

III. **Total Hours.** 26 semester credits required.

IV. **Minimum GPA.** The courses used to satisfy the minor requirements must be completed with a combined GPA of 2.0 or higher.

Note: 1. Unless specified, course duplications or non-mathematics substitutions are not acceptable in lieu of the specific courses indicated above.

   2. Please consult the University Course Catalog for prerequisite requirements.