The Mathematics major offers a foundation for students interested in acquiring and developing intellectual tools for understanding and solving the complex mathematical problems arising in the modern world. The program offers courses in all major areas of pure and applied mathematics. A friendly environment facilitates in-depth learning and stimulating introduction to research.

### Freshman Year

**FALL SEMESTER**
- UK Core - Comp. & Comm. I - **3**
- Foreign Language 101 - **4**
- Required Calculus Course - **5**
- UK Core - Humanities - **3**

**SPRING SEMESTER**
- UK Core - Comp. & Comm. II - **3**
- Foreign Language 102 - **4**
- Required Calculus Course - **5**
- UK Core - Social Sciences - **3**

**TOTAL HOURS: 15**

**Total Freshman Hours: 30**

### Sophomore Year

**FALL SEMESTER**
- MA 213 - CALCULUS III - **4**
- CS 115 - INTRODUCTION TO COMPUTER PROGRAMMING - **3**
- Foreign Language 201 - **3**
- UK Core - Natural, Physical and Math - **3**
- UK Core - Statistical Inferential Reason - **3**

**SPRING SEMESTER**
- MA 322 - MATRIX ALGEBRA AND ITS APPLICATIONS - **3**
- CS 215 - INTRODUCTION TO PROGRAM DESIGN, ABstraction, AND PROBLEM SOLVING - **4**
- Math Core Selection - **3**
- Natural Science/Math Course (100+ level) - **3**
- A&S Lab or Field Work - **1**
- UK Core - Arts and Creativity - **3**

**TOTAL HOURS: 16**

**Total Sophomore Hours: 32**

### Junior Year

**FALL SEMESTER**
- MA 320 - INTRODUCTORY PROBABILITY - **3**
- Math Sequence (First Course) - **3**
- Supporting Program (First Course) - **3**
- A&S Humanities (300+ level) - **3**
- A&S Math/Science Hours - **3**

**SPRING SEMESTER**
- MA 321 - INTRODUCTION TO NUMERICAL METHODS - **3**
- STA 321 - BASIC STATISTICAL THEORY I - **3**
- MA 391 - MATHEMATICS: COMPOSITION AND COMMUNICATION - **3**
- Math Sequence (Second Course) - **3**
- Supporting Program (Second Course) - **3**
- A&S Social Sciences (100+ level) - **3**

**TOTAL HOURS: 18**

**Total Junior Hours: 34**
Senior Year

**FALL SEMESTER**
Math Course Selection (300+ level) - 3
Supporting Program (Third Course) - 3
UK Core - Community, Culture and Citizen - 3
A&S Math/Science Hours - 3
A&S Approved Elective (100+ level) - 3

**TOTAL HOURS: 15**

**SPRING SEMESTER**
Math Course Selection (300+ level) - 3
A&S Math/Science Hours - 3
UK Core - Global Dynamics - 3
A&S Approved Elective (100+ level) - 3

**TOTAL HOURS: 13**

Total Senior Hours: 28

Total Minimum hours Required for Degree: 120 hours