The Department of Mathematical Sciences offers undergraduate and graduate degree programs in mathematics for students with various interests and career goals. Students may pursue the standard program or a program focused on actuarial mathematics, applied mathematics, mathematics education, or mathematical statistics. Students may complement other interests by taking a double major in mathematics and a related field, such as chemistry, economics, physics, computer science, or engineering.

Math Tutorial
The department offers a Tutorial Program (http://math.gmu.edu/tutorial-registration.php) for students who do not place into the math course they need. Successful completion of the relevant program enables students to enroll in MATH 105 Precalculus Mathematics, MATH 108 Introductory Calculus with Business Applications (Mason Core) (http://catalog.gmu.edu/mason-core/), or MATH 125 Discrete Mathematics I (Mason Core) (http://catalog.gmu.edu/mason-core/).

Math Tutoring Center
The department manages the Math Tutoring Center (http://math.gmu.edu/tutor-center.php?_ga=1.265621830.873783809.1452007880/) which offers free tutoring for first- and second-year math courses. Tutoring is given by advanced mathematics students and is available on a drop-in basis with daytime and evening hours throughout the semester.

Certificate in College Teaching
A student enrolled in the Mathematics, MS (http://catalog.gmu.edu/colleges-schools/science/mathematical-sciences/mathematics-ms/) or Mathematics, PhD (http://catalog.gmu.edu/colleges-schools/science/mathematical-sciences/mathematics-phd/) who is primarily interested in pursuing a career in undergraduate education at the college level is encouraged to consider enrolling in the College Teaching Graduate Certificate (http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/higher-education/college-teaching-graduate-certificate/) offered through the College of Humanities and Social Sciences (http://catalog.gmu.edu/colleges-schools/humanities-social-sciences/).

Credit can be earned for HE 685 Practicum by working one semester as a graduate teaching assistant in the Department of Mathematical Sciences.
For Both Mathematics and Non-mathematics Majors

- MATH 105 Precalculus Mathematics (Mason Core) (http://catalog.gmu.edu/mason-core/) is an option for students who need MATH 113 Analytic Geometry and Calculus I (Mason Core) (http://catalog.gmu.edu/mason-core/) but believe they are not prepared for that course. In these two 3-credit courses, students will learn fundamental algebra and calculus so that upon completion of the sequence, students will be prepared for MATH 114 Analytic Geometry and Calculus II.

- Students who do not achieve the necessary test score needed to take a math course may enroll in the Tutorial Program (http://math.gmu.edu/tutorial-registration.php), or they may study and retake the test on their own. A student who does not complete the Tutorial Program (http://math.gmu.edu/tutorial-registration.php) or does not achieve the necessary score on the Math Placement Test (http://math.gmu.edu/placement_test.php) will not be able to enroll in the class. Depending on their test scores, students who do not place into MATH 113 Analytic Geometry and Calculus I (Mason Core) (http://catalog.gmu.edu/mason-core/) will be advised to take MATH 105 Precalculus Mathematics or MATH 123 Calculus with Algebra/Trigonometry, Part A, or enroll in the Tutorial Program to prepare for MATH 105.

- MATH 104 Trigonometry and Transcendental Functions and MATH 105 Precalculus Mathematics do not fulfill the Mason Core (http://catalog.gmu.edu/mason-core/) ‘Quantitative Reasoning’ requirement.

- Students may not receive credit for both MATH 214 Elementary Differential Equations and MATH 216 Theory of Differential Equations; both MATH 213 Analytic Geometry and Calculus III and MATH 215 Analytic Geometry and Calculus III (Honors); both MATH 351 Probability and STAT 344 Probability and Statistics for Engineers and Scientists I; and both MATH 352 Statistics and STAT 354 Probability and Statistics for Engineers and Scientists II.

- After receiving a grade of ‘C’ or better in one of the courses listed below on the left, students may not receive credit for the corresponding course on the right.

<table>
<thead>
<tr>
<th>Course</th>
<th>May Not Receive Credit for</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113 or MATH 123</td>
<td>MATH 105 or MATH 108</td>
</tr>
<tr>
<td>MATH 351 or STAT 344</td>
<td>MATH 110</td>
</tr>
<tr>
<td>MATH 441</td>
<td>MATH 111</td>
</tr>
<tr>
<td>MATH 125</td>
<td>MATH 112</td>
</tr>
</tbody>
</table>

Programs

- Actuarial Sciences Graduate Certificate
- Mathematics Minor
- Mathematics for School of Business Students Minor
- Mathematics, BA
- Mathematics, BS
- Mathematics, MS
- Mathematics, PhD