



Bachelor of Science in Applied Mathematics

The **BS in Applied Mathematics** combines the rigor of a BS degree with an emphasis on topics in applied mathematics. It also prepares students for graduate study in Applied Mathematics and is appropriate for students interested in interdisciplinary graduate training in the sciences and engineering.

Please note:

- All classes counting toward the degree must be taken for a letter grade. We do not accept S/U for any courses required for majors or minors.
- Students must meet the minimum GPA requirement of 2.0 to graduate with any major or minor from the department.
- Also, a letter grade of "D" in a prerequisite course indicates insufficient preparation for the follow-up course, and we recommend you retake it.
- Major/Minor GPA will be calculated using the better of the grades when a student repeats a course.

Faculty Advisor: students will be assigned one advisor by the department

- **Manuela Manetta** (manuela.manetta@emory.edu) OR **Alessandro Veneziani** (avenez2@emory.edu)

Requirements

Class Number	Class Name
Math 111	Calculus I
Math 112	Calculus II
Math 211	Multivariable Calculus
Math 212	Differential Equations
Math 221 or Math 321	Linear Algebra or Vector Spaces
Math 250	Foundations of Mathematics
Math 315	Numerical Analysis
Math 351	Partial Differential Equations
Math 170 OR CS 170	Intro to Scientific Computing OR Introduction to Computer Science I
Any combination of 3 courses chosen from the following list:	Math 318: Complex Variables Math 344: Differential Geometry Math 345: Math Modeling Math 346: Linear Optimization Math 347: Intro to Nonlinear Optimization Math 352: PDEs in Action Math 361: Mathematical Stats I Math 362: Mathematical Stats II

	Math 411: Real Analysis I Math 412: Real Analysis II
Any combination of 2 courses chosen from the following:	CS 171: Introduction to Computer Science II *Any Math or CS classroom-course numbered 200 or above
The sequence: Physics 151/152	General Physics I and II
1 course chosen from the following list:	Physics 253: Modern Physics with Lab Physics 361: Analytical Mechanics Physics 365: Electromagnetic Fields Chem/Bio 330: Molecular Modeling Chem 331: Physical Chemistry I Econ 320: Econometrics Math/Econ 425: Mathematical Economics

*** Excludes Math 207, Math 210, and Directed Study**

**** Students pursuing an Applied Mathematics BS do not have to have completed Math 250 by the end of their sophomore year.**

*** Occasionally topics courses are offered that may count towards a degree. Talk to your academic advisor to get approval.**