

Applied Math

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Applied Math
Graduate
Student

Applied Math Major

Math is Technology

- Producing **quantitative & computational** answers to questions in:
 - science, industry & research
 - business & economics
 - computers & graphics

Is This a Major for You?

- do you list *problem solving skills* among your strongest talents?
- do you enjoy producing computer solutions to mathematical problems?
- do you like the challenge of explaining difficult ideas to others?

Skills For the Future

- learn advanced methods for scientific computing & mathematics
- learn to design computational algorithms & scientific graphics
- learn to communicate with quantitative and technical expertise

Applied Math

Lower Division Requirements

What Courses Do I Need?

Math Requirements

- calculus
- linear algebra
- intro to analysis 1

math 151, 152, 251, 252
math 240
math 242

Non-Math Requirements

- computing science
- physics
- statistics

cmpt 126/120+125
phys 120/125, 121/126
stat 270

Applied Math

Upper Division Requirements

What Courses Come Next?

Core Courses

- Calculus
- Differential Equations math 310
- Intro to Fourier Methods & PDEs math 314
- Real Analysis II math 320
- Complex Analysis math 322
- Numerical Analysis macm 316
- Partial Differential equations II math 418

Specialty Applications

- math modelling math 461
- Fluid mechanics math 462
- Optimization math 308, 309
- Scientific computing macm 416
- Dynamical systems math 467
- Numerical linear algebra macm 409
- Special topics math 495
- & many others . . .