

B.S. in APPLIED MATHEMATICS

55 CREDITS; 180 TOTAL CREDITS REQUIRED FOR GRADUATION

	Credits:
Mathematics (15 credits)	
<input type="checkbox"/> MATH 124 or 134 - Calculus I	(5)
<input type="checkbox"/> MATH 125 or 135 - Calculus II	(5)
<input type="checkbox"/> MATH 126 or 136 - Calculus III	(5)
Computing (4 credits)	
<input type="checkbox"/> AMATH 301 - Beginning Scientific Computing	(4)
Introductory Applied Mathematics (9 credits)	
<input type="checkbox"/> AMATH 351 - Intro to Differential Equations and Applications	(3)
<input type="checkbox"/> AMATH 352 - Applied Linear Algebra and Numerical Analysis	(3)
<input type="checkbox"/> AMATH 353 - Partial Differential Equations and Waves	(3)
Electives: minimum 27 credits from (A), (B), and (C) below	
A. Methods of Applied Mathematics (minimum two courses):	
<input type="checkbox"/> AMATH 401 - Vector Calculus and Complex Variables	(4)
<input type="checkbox"/> AMATH 402 - Intro to Dynamical Systems and Chaos	(4)
<input type="checkbox"/> AMATH 403 - Methods for Partial Differential Equations	(4)
B. Modeling (minimum two courses):	
<input type="checkbox"/> AMATH 342 - Intro to Neural Coding and Computation	(3)
<input type="checkbox"/> AMATH 383 - Partial Differential Equations and Waves	(3)
<input type="checkbox"/> AMATH 422 - Computational Modeling of Biological Systems	(3)
<input type="checkbox"/> AMATH 423 - Mathematical Analysis in Biology and Medicine	(3)
C. Computing and Data Sciences (minimum two courses):	
<input type="checkbox"/> AMATH 481 - Scientific Computing	(5)
<input type="checkbox"/> AMATH 482 - Computational Methods for Data Analysis	(5)
<input type="checkbox"/> AMATH 483 - High Performance Scientific Computing	(5)
<input type="checkbox"/> CFRM 410 - Probability and Statistics for Computational Finance	(3)
<input type="checkbox"/> CFRM 420 - Intro to Computational Finance and Financial Econometrics	(3)
<input type="checkbox"/> CFRM 421 - Machine Learning for Finance	(4)

[General Education requirements for College of Arts and Sciences students](#)

Minimum 2.00 cumulative GPA in courses applied to the major.

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Degree Planning Instructions:

1. Refer to the degree planning sheet above to select classes in [MyPlan](#).
2. Log into myplan.uw.edu
3. Find the courses you need and add them to your plan for upcoming quarters. Use the "View Academic Year" feature from the MyPlan homepage or left sidebar to add courses. Note: if a course is not available yet in MyPlan, you can still manually add a class to your plan from the course schedules linked below.
4. Once your plan is complete, we recommend that you make your MyPlan viewable to advisors by clicking your name at the top right of the screen and making sure "shared" is selected in the settings. An advisor will then review it for approval. Alternatively, you can save a pdf copy of the Academic Year(s) page and email it to amathadv@uw.edu.

Course Planning and Registration Resources:

AMATH Course Catalog: <http://www.washington.edu/students/crscat/appmath.html>

CFRM Course Catalog: <http://www.washington.edu/students/crscat/cfrm.html>

AMATH/CFRM Course Schedule: <https://amath.washington.edu/courses>

Time Schedule: <https://www.washington.edu/students/timeschd/>

MyPlan: <https://myplan.uw.edu/home/>

MyPlan Support:

<https://itconnect.uw.edu/tools-services-support/academic-planning/myplan-academic-planner/>