B.S. in APPLIED MATHEMATICS: Data Science Option

54-58 CREDITS; 180 TOTAL CREDITS REQUIRED FOR GRADUATION

Mathematics (15 credits)	**Credits:**
☐ MATH 124 or 134 - Calculus I	(5)
☐ MATH 125 or 135 - Calculus II	(5)
☐ MATH 126 or 136 - Calculus III	(5)

Computing (4 credits)	
☐ AMATH 301 - Beginning Scientific Computing	(4)

Introductory Applied Mathematics (9 credits)	
☐ AMATH 351 - Intro to Differential Equations and Applications	(3)
☐ AMATH 352 - Applied Linear Algebra and Numerical Analysis	(3)
☐ AMATH 353 - Partial Differential Equations and Waves	(3)

Requirements for Data Science Option: 26-30 credits

Data Science (23-25 credits)

1) One of:

☐ AMATH 481 - Scientific Computing ***or***	(5)
☐ CSE 163 - Intermediate Data Programming	(4)

2) One of:

☐ AMATH 482 - Computational Methods for Data Analysis ***or***	(5)
☐ CSE 414 - Introduction to Database Systems ***or***	(4)
☐ INFO 430 - Database Design and Management	(5)

3) Complete all:

☐ AMATH 483 - High Performance Scientific Computing	(5)
☐ CFRM 410 - Probability and Statistics for Computational Finance	(3)
☐ CFRM 420 - Intro to Computational Finance and Financial Econometrics	(3)

4) One of:

☐ CFRM 421 - Machine Learning for Finance ***or***	(4)
☐ CSE/STAT 416 - Introduction to Machine Learning ***or***	(4)
☐ STAT 435 - Introduction to Statistical Machine Learning	(4)

Society and Data (3-5 credits)

5) Complete one:

☐ INFO 351 - Information Ethics and Policy	(4)
☐ SOC 225 - Data and Society	(3/5)

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General Education requirements for College of Arts and Sciences students

Minimum 2.00 cumulative GPA in courses applied to the major.

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/