

# B.S. in COMPUTATIONAL FINANCE & RISK MANAGEMENT

**69 CREDITS; 180 TOTAL CREDITS REQUIRED FOR GRADUATION**

	<b>Credits:</b>
<b>Mathematics (15 credits)</b>	
<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)
<b>Computing (7 credits)</b>	
<input type="checkbox"/> AMATH 301 - Beginning Scientific Computing	(4)
<input type="checkbox"/> CFRM 425 - R Programming for Quantitative Finance	(3)
<b>Statistics For Finance (3 credits)</b>	
<input type="checkbox"/> CFRM 410 - Probability and Statistics for Computational Finance	(3)
<b>Applied Mathematics (9 credits)</b>	
<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)
<b>Quantitative Finance (9 credits)</b>	
<input type="checkbox"/> CFRM 405 - Mathematical Methods for Quantitative Finance	(3)
<input type="checkbox"/> CFRM 415 - Intro to Financial Markets	(3)
<input type="checkbox"/> CFRM 420 - Intro to Computational Finance and Financial Econometrics	(3)
<b>Electives: minimum 26 credits from the following:</b>	
<input type="checkbox"/> CFRM 421 - Machine Learning for Finance	(4)
<input type="checkbox"/> CFRM 422 - Intro to Trading Systems	(4)
<input type="checkbox"/> CFRM 426 - FinTech, Blockchains, and Cryptocurrencies	(4)
<input type="checkbox"/> CFRM 430 - Fixed Income Analytics	(4)
<input type="checkbox"/> CFRM 442 - Credit Risk Management	(4)
<input type="checkbox"/> CFRM 450 - Stochastic Calculus for Quantitative Finance	(4)
<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)

[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](http://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.
1. 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](mailto: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/>