



AMP Up Your Potential!

Consider an Accelerated Master's Pathway in Bioinformatics starting Fall 2026.

The Accelerated Master's Pathway (AMP) lets you begin graduate courses in your senior year that count toward both your bachelor's and master's degrees.

Qualified students who are admitted to an AMP for Bioinformatics can take up to 15 credits of their master's degree in their senior year. AMP students should follow recommendations for graduate courses, as listed on the back of this page.

Applications open in March 2026 for all 2027 terms. Applicants should apply for the term that immediately follows the conferral of their bachelor's degree.



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AMP in Bioinformatics Admissions Requirements

- 3.3 Minimum GPA
- Resume/CV
- Statement of Purpose: A brief (500-1000 word) statement describing your academic interests and professional goals. Include whether you are applying to the Thesis or Non-Thesis Track. For students applying to the Thesis Track, include the faculty research lab in which you are planning to do your thesis project.
- 2 Letters of Recommendation. For students applying to the Thesis Track, one of the letters of recommendation must be from your intended faculty research director.
- 2 Required Prerequisites: (1) BIOL 282 Genetics and (2) MATH 215 Object-Oriented Programming with Mathematics or COMP 170 Introduction to Object-Oriented Programming
- Applicants are strongly encouraged to have completed or be enrolled in BIOL 388 Bioinformatics when applying.
- Application Deadline: March 15 for Fall

Recommended Fall AMP Courses

COURSE NUMBER	COURSE TITLE	PREREQUISITES	NUMBER OF CREDIT HOURS
UNIV 370 (Thesis-Track Only)	Responsible Conduct in Research and Scholarship		0 (Summer 2-day course)
BIOI 494 (Thesis-Track Only)	Bioinformatics Research Design		1
BIOL 488 (Both Tracks)	Bioinformatics ¹	BIOL 282	3
CHEM 465 or BIOI 565 (Both Tracks)	Proteomics ² or Exploring Proteins ²	CHEM 361	3

¹Take another BIOL 400-Level course if you already took BIOL 388.

²Semester offered varies.

Recommended Spring AMP Courses

COURSE NUMBER	COURSE TITLE	PREREQUISITES	NUMBER OF CREDIT HOURS
BIOI 501 (Both Tracks)	Bioinformatics Seminar	BIOL 388 or 488	1
COMP 483 (Both Tracks)	Computational Biology	BIOL 388 or 488 and COMP 231 or 271	4
STAT 437 (Both Tracks)	Quantitative Bioinformatics	STAT 203 or 335	3

15 of the 30 required credits for the MS Bioinformatics degree may be taken during senior year. Students should plan to take at least 12 graduate level credits their senior year to ensure timely completion of the MS degree. Electives or research credits may fit into a particular student's schedule better than the courses listed above.



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