

# BIOINFORMATICS AND COMPUTATIONAL BIOLOGY (SABI)

Graduate Degree Program  
College: Computer, Mathematical, and Natural Sciences

## ABSTRACT

The Master of Science in Bioinformatics and Computational Biology provides education in the theory and practice of the major current areas in the field including biological problem contexts, mathematical and statistical foundations, computational approaches, communication, and ethical, privacy and legal considerations. In addition to the fundamentals of bioinformatics and computational biology, the program covers relevant probability and statistics, data structures and algorithms, and machine learning. The program consists of 30-credit course work and is a non-thesis MS program.

## CONTACT

### Science Academy

#### College of Computer, Mathematical, and Natural Sciences

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8223 Paint Branch Drive  
University of Maryland  
College Park, MD 20742  
**Email:** scienceacademy@umd.edu  
**Phone:** 301.405.9101

**Website:** <https://cmns.umd.edu/graduate/science-academy/data-science/masters> (<https://cmns.umd.edu/graduate/science-academy/data-science/masters/>)

## ADMISSIONS

### GENERAL REQUIREMENTS

- Statement of Purpose
- Transcript(s)
- TOEFL/IELTS/PTE (international graduate students (<https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/>))

### PROGRAM-SPECIFIC REQUIREMENTS

- Letter of Recommendation (1 optional)
- CV/Resume
- Description of Research/Work Experience
- Prior Coursework: Prior coursework establishing quantitative ability (i.e. calculus, linear algebra, basic statistics etc.).
- Proficiency in programming languages: Proficiency in programming languages, demonstrated either through prior programming coursework or substantial software development experience.

Type of Applicant	Fall Deadline	Spring Deadline
<b>Domestic Applicants</b>		
US Citizens and Permanent Residents	May 30, 2025	N/A
<b>International Applicants</b>		

F (student) or J (exchange visitor) visas; A,E,G,H,I and L visas and immigrants	February 28, 2025	N/A
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### RESOURCES AND LINKS:

**Program Website:** <https://cmns.umd.edu/graduate/science-academy/data-science/masters> (<https://cmns.umd.edu/graduate/science-academy/data-science/masters/>)

**Application Process:** [www.gradschool.umd.edu/admissions](http://www.gradschool.umd.edu/admissions) (<http://www.gradschool.umd.edu/admissions/>)

## REQUIREMENTS

- Bioinformatics and Computational Biology, Master of Science (M.S.) (<https://academiccatalog.umd.edu/graduate/programs/bioinformatics-and-computational-biology-sabi/bioinformatics-and-computational-biology-ms/>)