

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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College Park, MD 20742
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Website: <https://cmns.umd.edu/graduate/science-academy/bioinformatics-computational-biology> (<https://cmns.umd.edu/graduate/science-academy/bioinformatics-computational-biology/>)

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.

F (student) or J (exchange visitor) February 27, 2026
visas; A,E,G,H,I and L visas and immigrants

RESOURCES AND LINKS:

Program Website: <https://cmns.umd.edu/graduate/science-academy/bioinformatics-computational-biology> (<https://cmns.umd.edu/graduate/science-academy/bioinformatics-computational-biology/>)

Application Process: 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/>)

Type of Applicant	Fall Deadline
Domestic Applicants	
US Citizens and Permanent Residents	May 29, 2026
International Applicants	