

BIOINFORMATICS MINOR

Requirements

The following courses are required for the Bioinformatics minor.

Course	Title	Credits
CHEM/NSCI 1321	General Chemistry I (no lab)	4
CHEM/NSCI 1322	General Chemistry II (no lab)	4
MATH 1205	Applied Statistics (or equivalent)	3
BISC 2539/ NSCI 3133	General Genetics	3
BISC 2549/ NSCI 3833	General Genetics Lab	
BISC 3754/ NSCI 3154	Cell Biology	3
CISC 4020	Bioinformatics	4

Intro Biology I and II with Lab must be taken to fulfill the Natural Science Core Requirement.

Course	Title	Credits
BISC/NSCI 1403	Introductory Biology I	3
BISC/NSCI 1413	Introductory Biology Lab I	2
BISC/NSCI 1404	Introductory Biology II	3
BISC/NSCI 1414	Introductory Biology Lab II	2

Certain majors are required to complete certain additional courses (often taken as electives in their major) to earn the Bioinformatics minor.

Computer Science majors must also take:

- CISC 2500 Information and Data Management
- CISC 4631 Data Mining.

Biological Sciences (RH) majors must also take:

- CISC 3500 Database Systems
- CISC 1400 Discrete Structures
- CISC 1600 Computer Science I /CISC 1610 Computer Science I Lab or CISC 1800 Introduction to Computer Programming (Students who take CISC 1600 during Fordham's Summer Session do not take CISC 1610, as the summer lecture and lab are offered in a combined format.)
- CISC 4631 Data Mining
- Either BISC 3754 Cell Biology or BISC 3752 Molecular Biology as an elective toward the major.

Natural Science (LC) majors must also take:

- CISC 3500 Database Systems
- CISC 1400 Discrete Structures
- CISC 1600 Computer Science I/CISC 1610 Computer Science I Lab or CISC 1800 Introduction to Computer Programming (Students who take CISC 1600 during Fordham's Summer Session do not take CISC 1610, as the summer lecture and lab are offered in a combined format.)

- CISC 4631 Data Mining
- NSCI 3133 Genetics Lecture taken toward the major.
- NSCI 4176 Molecular Biology Lecture or NSCI 3154 Cell and Development Biology Lecture taken toward the major.

General Science (RH) majors must also take:

- CISC 3500 Database Systems
- CISC 4597 Artificial Intelligence
- CISC 4631 Data Mining
- BISC 2539 General Genetics/BISC 2549 General Genetics Lab taken toward the major.
- Either BISC 3754 Cell Biology or BISC 3752 Molecular Biology as an elective toward the major.

Integrative Neuroscience majors must also take:

- CISC 3500 Database Systems
- CISC 1400 Discrete Structures
- CISC 1600 Computer Science I/CISC 1610 Computer Science I Lab or CISC 1800 Introduction to Computer Programming (Students who take CISC 1600 during Fordham's Summer Session do not take CISC 1610, as the summer lecture and lab are offered in a combined format.)
- CISC 4631 Data Mining
- NSCI 3133 Genetics Lecture or BISC 2539 General Genetics taken toward the major.
- NSCI 4176 Molecular Biology Lecture or NSCI 3154 Cell and Development Biology Lecture or BISC 3754 Cell Biology or BISC 3752 Molecular Biology as an elective toward the major.

Availability

The minor in bioinformatics is available at Fordham College at Rose Hill and Fordham College at Lincoln Center. Students in Fordham's School of Professional and Continuing Studies may minor in bioinformatics only if they receive the approval of their advising dean and/or department, and their schedules are sufficiently flexible to permit them to take day courses at the Rose Hill or Lincoln Center campuses.

Fordham College at Rose Hill students: The requirements above are in addition to those of the Core Curriculum.

Fordham College at Lincoln Center students: The requirements above are in addition to those of the Core Curriculum.