

PROGRAM CURRICULUM



General Studies: Bioinformatics Associate in Science

DIVISION OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Bioinformatics is an interdisciplinary science that includes calculus, biological sciences-based courses complemented by computer science and programming courses. Graduates of the program are very versatile and knowledgeable in acquiring scientific results, computational approaches, and applying such information.

The Bioinformatics program prepares students for 21st century science and beyond. Graduates are prepared to enter the rapidly growing field of bioinformatics as technicians in biotechnology companies, the pharmaceutical sector, research facilities and academic institutions. Courses are designed to accommodate students seeking to enter the workforce or transfer to four-year institutions upon completion of their degree. This program involves traditional teaching methods and research-based courses that enhance students' academic experience.

Upon successful completion, the Associate in Science Degree in General Studies with a concentration in Bioinformatics is awarded.

PROGRAM FOOTNOTES

Humanities Electives: Art, Communications, Film, Foreign Language, Humanities, Literature, Music, Oral Communication, Philosophy, Photography, Sign Language, Theater Arts

Social Science Electives: Anthropology, Economics, Geography, Government, History, Law and Society (LA 230), Psychology, Sociology



COURSE	COURSE TITLE	CREDITS
<i>First Year Semester I</i>		
BI 110	Principles of Biology I	4
CH 110	Principles of Chemistry I	4
EN 101	Freshman English I	3
MA 200	Calculus I	4
CS 205	Introduction to Computation	4
		credits:
		19
<i>First Year Semester II</i>		
BI 170	Principles of Bioinformatics I	4
EN 102	Freshman English II	3
BI 120	Principles of Biology II	4
CS 120	Programming I	4
CT 100	Critical Thinking	3
		credits:
		18
<i>Second Year Semester I</i>		
BI 171	Principles of Bioinformatics II	4
CS 200	Programming II	4
BI 260	Computational Biology	4
	Humanities Elective	3
		credits:
		15
<i>Second Year Semester II</i>		
CS 208	Data Structures	4
BI 270	Directed Research/ Internship	4
	Social Science Elective	3
	Humanities Elective	3
		or
	Social Science Elective	3
		credits:
		14
		Total Credits:
		66