

Bachelor of Science - Bioinformatics - 129 Credits

		Fall Semester		Spring Semester		
Freshman	R 120 - 101	General Biology Discussion	4	R 120 - 102	General Biology II	4
	Math 111	Calculus I	4	Math 112	Calculus II	4
	CHEM 125	General Chemistry I	3	CHEM 124	General Chemistry Lab	1
	HUM 101	English Composition: Writing, Speaking, Thinking I	3	CHEM 126	General Chemistry II	3
	BNFO 135	Programming for Bioinformatics I	3	BNFO 136	Programming for Bioinformatics II	3
	CS 107	Computing as a Career	1			
	<i>Credits:</i>		18	<i>Credits:</i>		15
Sophomore	R 120 - 201	Foundations of Biology	3	R 120 - 356	Molecular Biology	3
	R 120 - 202	Foundations of Biology Lab	1	BNFO 601	Foundations of Bioinformatics I	3
	R 120 - 352	Genetics	3	CHEM 243	Organic Chemistry I	3
	CS 241	Foundations of Computer Science I	3	Social Science I		3
	Math 333	Probability & Statistics	3	Social Science II		3
	HUM 102	English Composition: Writing, Speaking, Thinking II	3	CS 207		1
	<i>Credits:</i>		16	<i>Credits:</i>		16
Junior	PHYS 111	Physics I	3	Math 337	Linear Algebra	3
	PHYS 111 A	Physics I Lab	1	IS 350	Computers, Society & Ethics	3
	HUM 211/212/HIST 213	The Pre-Modern World/The Modern World/The Twentieth-Century World	3	MGMT 390/IE 492	Principles of Management/Engineering Management	3
	BNFO 602	Foundations of Bioinformatics II	3	CS 435	Advanced Data Structures & Algorithm Design	3
	CS 431	Database System Design & Management	3	Specialty Elective 1		3
	General Elective 1		3	Physical Education I		1
	<i>Credits:</i>		16	<i>Credits:</i>		16
Senior	ENG 340/352	Oral Presentations/Technical Writing	3	BNFO 491	Computer Science Project	3
	BNFO 644	Data Mining and Management in Bioinformatics	3	HHS Capstone		3
	General Elective 2		3	Upper LIT/PHIL/HIST/STS		3
	Specialty Elective 2		3	General Elective 3		3
	Specialty Elective 3		3	Specialty Elective 4		3
	Physical Education II		1	CS 407	Professional Development in Computing	1
	<i>Credits:</i>		16	<i>Credits:</i>		16