

Bachelor of Science - Bioinformatics
Degree Requirements Worksheet
 126 Credits

Student Name: _____
ID: _____
GPA: _____

REQUIRED CORE COURSES			
Completed	Course	Title	Prerequisites
	Math 111	Calculus I (4 credits)	Placement OR B in Math139
	Math 112	Calculus II (4 credits)	C in Math 111
	Math 333	Probability & Statistics	C in Math 112
	Math 337	Linear Algebra	C in Math 112
	R120:101	Rutgers Course - General Biology Discussion	N/A
	R120:102	Rutgers Course - General Biology II	N/A
	R120:201	Rutgers Course - Foundations of Biology	C in120:101 AND 120:102
	R120:202	Rutgers Course - Foundations of Biology Lab	C in120:101 AND 120:102 AND Chem 125
	R120:352	Rutgers Course - Genetics	C in120:101 AND 120:102
	R120:356	Rutgers Course - Molecular Biology	C in 120:101 AND 120:102 AND 120:201 AND 120:202
	Chem 125	General Chemistry I	Placement exam AND HS algebra/trig
	Chem 124	General Chemistry Lab	Corequisite: Chem 126
	Chem 126	General Chemistry II	Corequisite: Chem 124
	Chem 243	Organic Chemistry I	C in Chem 126
	PHYS 111	Physics I	Corequisite: Math 111
	PHYS 111 A	Physics I Lab	Corequisite: Math 111
	CS 107	Computing as a Career	Freshman standing
	CS 207	Computing & Effective Communication	Sophomore standing
	CS 407	Professional Development in Computing	Senior standing

REQUIRED CCS COURSES			
Completed	Course	Title	Prerequisites
	BNFO 135	Programming for Bioinformatics	N/A
	BNFO 136	Programming for Bioinformatics II	N/A
	CS 241	Foundations of Computer Science I	BNFO 136 AND Math 112
	IS 350	Computers, Society & Ethics	CS BNFO 135 AND HUM 101 AND (1) SS COURSE
	CS 431	Database System Design & Management	BNFO 136
	CS 435	Advanced Data Structures & Algorithm Design	CS 241 AND BNFO 601/602
	BNFO 491	Computer Science Project	Senior Standing
	BNFO 601	Foundations of Bioinformatics I	
	BNFO 602	Foundations of Bioinformatics II	
	BNFO 644	Data Mining & Management in Bioinformatics	
	Specialty Elective 1*	300/400 level	
	Specialty Elective 2*	300/400 level	
	Specialty Elective 3*	300/400 level	
	Specialty Elective 4*	300/400 level	

*Specialty Electives = A coherent set of courses from Math/Science/Engineering/CCS/Management.

GENERAL UNIVERSITY REQUIREMENT COURSES (GUR)			
Completed	Course	Title	Prerequisites
	HUM 101	English Composition: Writing, Speaking, Thinking I	Placement OR C in HUM 099
	HUM 102	English Composition: Writing, Speaking, Thinking II	C in HUM 101
	HUM 211/HUM 212/HIST 213	The Pre-Modern World/The Modern World/ The Twentieth-Century World	C in HUM 102
	Social Science I*		
	Social Science II*		
	ENG 340/352	Oral Presentations/Technical Writing	C in HUM 102 AND HUM 211/212/HIST 213
	MGMT 390/IE 492	Principles of Management/Engineering Management	Junior OR Senior standing
	Upper LIT/PHIL/HIST/STS	300/400 level	C in HUM 102 AND HUM 211/212/HIST 213
	Humanities Senior Seminar	HSS 400 level	C in HUM 201 AND HUM 211/212/HIST 213 AND Upper LIT/PHIL/HIST/STS AND Senior standing
	General Elective 1**		
	General Elective 2**	co-op credit allowed	
	General Elective 3**	co-op credit allowed	
	Physical Education I		
	Physical Education II		

*Social Science Courses: ECON 201/265/266, EPS 202, STS 201/210/221, RU Psychology/Sociology/Criminal Justice/Anthropology/Political Science.

Two electives **MUST be from CS/Math/Science/Engineering.

OTHER CREDITS (CREDITS DO NOT COUNT TOWARDS DEGREE REQUIREMENTS)			
Completed	Course	Title	Prerequisites

REVIEW DATES & ADDITIONAL NOTES	
You can earn up to six co - op credits. For more information please visit CDS: njit.edu/cds/students/co-op/index.php	

LABEL KEY	
Have not taken this course	
Courses in progress	
Will register for this course	
Completed course	
Pending transfer credit	

ACADEMIC ADVISOR: _____
ACADEMIC ADVISOR EMAIL: _____

Please note it is the student's responsibility to verify the accuracy of this grid against their transcript and report any discrepancies to their advisor.