

## BIOLOGICAL SCIENCES (BS) with an Emphasis In Computational Biology

Student: \_\_\_\_\_ Student ID: \_\_\_\_\_ Phone #: \_\_\_\_\_ Email: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Beginning Term: \_\_\_\_\_ Anticipated Completion: \_\_\_\_\_

<b>Estimated Transfer Credits:</b> _____	<b>Estimated Webster Credits:</b> _____	<b>Total Credit Hours:</b> _____ • Transfer Credits + Webster Credits • Minimum of 120 hours
core requirements: _____	core requirements: _____	
GCP courses: _____	GCP courses: _____	
electives: _____	electives: _____	

REQUIRED CORE COURSES (82 hours)						
Course	Hrs	Pre-requisite	Term	Year	Grade	Transfer
			--			
BIOL 1550 Essentials of Biology I	4 sh		--			
BIOL 1551 Essentials of Biology I: Lab	1 sh		--			
BIOL 1560 Essentials of Biology II	4 sh	BIOL 1550	--			
BIOL 1561 Essentials of Biology II: Lab	1 sh		--			
BIOL 2000 Introduction to Computational Biology	3 sh	BIOL 1560				
BIOL 2010 Evolution	3 sh	BIOL 1550, 1560	--			
BIOL 3050 Genetics	3 sh		--			
BIOL 3051 Genetics: Lab	1 sh		--			
BIOL 3080 Cell Biology	3 sh		--			
BIOL 3081 Cell Biology: Lab	1 sh		--			
BIOL 4400 Research Methods	3 sh	See catalog	--			
BIOL 4430 Senior Thesis for BS in Biological Sciences	4 sh	BIOL 4400	--			
CHEM 1100 General Chemistry I	3 sh		--			
CHEM 1101 General Chemistry I: Lab	1 sh		--			
CHEM 1110 General Chemistry II	3 sh	CHEM 1100	--			
CHEM 1111 General Chemistry II: Lab	1 sh		--			
CHEM 2100 Organic Chemistry I	3 sh	CHEM 2100	--			
CHEM 2101 Organic Chemistry I: Lab	1 sh		--			
CHEM 2110 Organic Chemistry II	3 sh	CHEM 2100	--			
CHEM 2111 Organic Chemistry II: Lab	1 sh		--			
CHEM 3100 Biochemistry I	3 sh	CHEM 2100	--			
CHEM 3101 Biochemistry I: lab	1 sh		--			
COSC 1550 Computer Programming I	3 sh					
COSC 1560 Computer Programming II	3 sh	COSC 1550 with grade of B- or better				
MATH 1610 Calculus I	5 sh		--			
MATH 2200 Statistics	3 sh		--			

PHYS 2030	University Physics I	3 sh		--			
PHYS 2031	University Physics I: Lab	1 sh		--			
PHYS 2040	University Physics II	3 sh		--			
PHYS 2041	University Physics II: Lab	1 sh		--			
<b>AN ADDITIONAL 9 HOURS OF ANY OF THE FOLLOWING ELECTIVES:</b>		9 sh		--			
2000+ level COSC courses							
2500+ level CSIS courses							
2000+ level BIOL, CHEM, or PHYS electives							
1600+ level MATH electives							

GLOBAL CITIZENSHIP PROGRAM (minimum 30 hours)										
FIRST YEAR SEMINAR (3 hours)		Hrs	Term	Year	Grade	Transfer				
		3sh	--							
KNOWLEDGE AREAS (24 hours)			SKILLS AREAS*							
	WCOM	OCOM	CRI	INTC	ETH	Hrs	Term	Year	Grade	Transfer
Roots of Cultures**	--	--	--	--	--	3sh	--			
	--	--	--	--	--	3sh	--			
Social Systems & Human Behaviors**										
	--	--	--	--	--	3sh	--			
	--	--	--	--	--	3sh	--			
Physical & Natural World										
	--	--	--	--	--	3sh	--			
Global Understanding										
	--	--	--	--	--	3sh	--			
Arts Appreciation										
	--	--	--	--	--	3sh	--			
Quantitative Literacy										
	--	--	--	--	--	3sh	--			
Skills Courses not associated with Knowledge Areas (optional)										
	--	--	--	--	--	3sh	--			
	--	--	--	--	--	3sh	--			
	--	--	--	--	--	3sh	--			
KEYSTONE SEMINAR (3 hours)		Hrs	Term	Year	Grade	Transfer				
		3sh	--							

**NOTE:** In addition to the First Year and Keystone Seminars, students must complete *all 5 Skills Requirements within or in addition* to fulfilling each Knowledge Area. Courses with a grade of C- or better will satisfy GCP requirements.

**Skills Areas:**      WCOM = Written Communication      OCOM = Oral Communication      ETH = Ethical Reasoning  
                             CRI = Critical Thinking                              INTC = Intercultural Competence

**\*\*NOTE:** Courses must have two different prefixes.

ELECTIVE COURSES					
TOTAL ELECTIVE TRANSFER HOURS					
REMAINING ELECTIVE HOURS					
Course	Hrs	Pre-Requisite	Term	Year	Grade
			--		
			--		
			--		
			--		
			--		
			--		
			--		
			--		
			--		

**COMMENTS:**

- Pending official transcripts, course descriptions and administrative approval.
- You may change the recommended course sequence as needed as long as you do not take any course before or with its prerequisite(s).
- Not all courses are offered at all sites each term. Check with the site for the current rotation schedule as course schedules are subject to change.
- Transfer credit may apply as general education courses, elective courses or core course substitutions (if the courses are substantively the same as Webster core courses).
- This program plan is not a substitute for application, registration, transfer of credit or core course substitution requests. All other required forms must be filed in addition to this program plan.
- Signature on this program plan does not imply commitment for application or registration.

Advisor \_\_\_\_\_

Student \_\_\_\_\_

Phone:

Fax: 314-968-7166

Email:

Date Advised: