Michigan Technological University
Registrar's Office
1885

Academic Year 2020-21
Bachelor of Science in Bioinformatics
SBIUG

Student Name and ID Number   Estimated Graduation Date

Major Requirements: 76 - 77 Credits		
Course Number	**Credits**	**Course Status Code M, R, P, WVD, SUB***
Biology Requirements (30 Credits)		
BL 1100 **and** BL 1110	3/1	
BL 1200 **and** BL 1210	3/1	
BL 1580	1	
BL 2200 **and** BL 2210	3/1	
BL 2700	3	
BL 3020	3	
BL 3300	3	
BL 3782	2	
BL 4030	3	
BL 4840	3	
Chemistry Requirements (11 Credits)		
CH 1150 **and** CH 1151	3/1	
CH 1160 **and** CH 1161	3/1	
CH 2410	3	
Computer Science Requirements (18 Credits)		
CS 1121	3	
CS 1122	3	
CS 2311	3	
CS 2321	3	
CS 3425	3	
CS 4321	3	
Mathematics Requirements (17 - 18 Credits)		
MA 1160/1161	4/5	
MA 2160	4	
MA 2330	3	
MA 3715	3	
MA 3740	3	

Biology Capstone Requirement (2-3 Credits)		
Biology Capstone Requirement (2-3 Credits) *Select either Biology Capstone option. Research credits in Biology (BL 4000/4001) may be taken individually and require arrangement with the instructor. Additional research credits beyond the capstone requirement count as free elective credits.*		
BL 4510	2	
BL 4000 **or** BL 4001 **and**	2	
BL 4530	1	

Major Electives: 9 - 11 Credits		
Course Number	**Credits**	**Course Status Code M, R, P, WVD, SUB***
Bioinformatics Elective (3 Credits)		
BL 4300	3	
FW 4082	3	
FW 4099	3	
Approved Electives: *Select at least 6 credits of approved electives from the lists below. Some courses may have additional prerequisite requirements.*		
Biology Approved Electives		
BL 3210 **or**	4	
BL 3310	3	
BL 3820	2	
BL 4020	3	
BL 4370	3	
Chemistry Approved Electives		
CH 3510	3	
CH 5560	3	
Computer Science Approved Electives		
CS 1142	3	
CS 3141	3	
CS 3311	3	
CS 3331	3	
CS 4811	3	
CS 4821	3	
CS 5811	3	
CS 5821	3	
CS 5841	3	
Mathematics Approved Electives		
MA 3160	4	
MA 3720	3	
MA 4710	3	
MA 4720	3	
MA 4760	3	
MA 4770	3	
MA 4780	3	
MA 4790	3	
Physics Approved Electives		
PH 2100	3	
University-Wide Approved Electives		
UN 3002	2	
UN 5390	3	

General Education Requirements: 24 Credits		
Course Number	**Credits**	**Course Status Code** **M, R, P, WVD, SUB***

Courses used to complete General Education may not be used to complete other degree requirements.

Core: 12 Credits		
UN 1015	3	
UN 1025 or upper level modern language	3	
Critical and Creative Thinking	3	
Social Responsibility and Ethical Reasoning	3	
HASS: 12 Credits		
✓ Students must complete 12 credits of HASS course work		
✓ Six of the 12 credits must be at the 3000- or 4000- level*		
✓ At least three credits each in the following: Communication/Comp, Humanities and Fine Arts, and Social & Behavioral Sciences.		
✓ No more than three credits may come from the Restricted List		
Communication/ Composition	minimum 3	
Humanities and Fine Arts	minimum 3	
Social and Behavioral Sciences	minimum 3	
Course from any list above or Restricted List	0-3	

*an upper division language course in place of UN1025 does not meet this requirement.

Free Electives: 5 - 9 Credits		
Course Number	**Credits**	**Course Status Code** **M, R, P, WVD, SUB***

***M**-Passed with valid grade, transfer, or Advance Placement credit; **R**egistered in course; **P**lan to take in future, **WVD**-Waived course or credit (does not reduce total degree credits required), **SUB**-Petitioned as substitute course.

Co-Curricular Activities: 3 Credits		
Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree.		

Advisor Use Only	
Total Credits Required	120
Total Credits Completed	
Total Credits Needed	