

**NAME:** \_\_\_\_\_ **STUDENT ID#:** \_\_\_\_\_ **LAST UPDATED:** \_\_\_\_\_

**DEGREE PLANS:** \_\_\_\_\_ **STUDENT GROUPS:** \_\_\_\_\_

**General Education Requirements** **Bioinformatics Curriculum Requirements**

ENGLISH COMPOSITION (6 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
ENGL 1150	Composition I			
ENGL 1160	Composition II			
Remaining:		6	0	0
Quantitative Literacy Requirement (3 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
MATH 1300 or Test Out				
Remaining:		3	0	0
PUBLIC SPEAKING (3 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
CMST 1110	Public Speaking			
CMST 2120	-OR- Debate			
Remaining:		3	0	0
HUMANITIES (9 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
CIST 3110	IT Ethics	*	*	IS&T Core
Remaining:		6	0	0
SOCIAL SCIENCE (9 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
Remaining:		9	0	0
NATURAL/PHYSICAL SCIENCE (7 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
BIOI 1000	Intro to BIOI	*	*	BIOI Core
CHEM 1140	Fund of College Chem	*	*	CHEM Core
CHEM 1144	Fund. of Coll. Chem. La	*	*	CHEM Core
Include 2 different areas; 1 with a lab				
Remaining:		0	0	0
GLOBAL DIVERSITY COURSE (3 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
US DIVERSITY COURSE (3 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
Remaining:		6	0	0

IS&T CORE COURSES (24 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
CIST 1400*	Intro to Comp Science I			
CSCI 1620*	Intro to Comp Science II			
CIST 2500	Intro to Applied Stats for IST			
CIST 3000	Adv Comp for IS&T			
CIST 3110	IT Ethics			
CSCI 3320	Data Structures			
CSCI 4830	Intro to SW Engineering			
CSCI 4850	Database Mgmt Systems			
CSCI 4150**	Graph Theory & Appl			
ISQA/CSCI 4890	Data Warehouse & Mining			
*CIST 1400 & CSCI 1620: Minimum grade of C or higher required				
Remaining:		24	0	0
MATHEMATICS COURSES (11 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
MATH 1950	Calculus I			
CSCI 2030	Math Foundations of CS			MATH 2230
ISQA 4150	Adv Statistical Methods			
Remaining:		11	0	0
BIOLOGY COURSES (16 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
BIOL 1450	Biology I			
BIOL 2140	Genetics			
BIOL 3020	Molecular Biology			
BIOL 4130	Molecular Genetics - OR -			
BIOL 4140**	Cellular Biology			
Remaining:		16	0	0
CHEMISTRY COURSES (14 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
CHEM 1140	Fund of College Chemistry			
CHEM 1144	Fund of College Chem Lab			
CHEM 2210	Fund of Organic Chem			
CHEM 2214	Fund of Organic Chemistry Lab			
CHEM 3650	Fund of Biochemistry			
CHEM 3654	Biochemistry Lab			
Remaining:		14	0	0
TOTAL CREDITS (Including in-progress classes):				0
Last update: March 2024				GPA:
Advising worksheet corresponds to the 2024-2025 UNO Catalog.				

BIOINFORMATICS REQUIREMENTS (24 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
BIOI 1000	Intro to Bioinformatics			
BIOI 2000**	Foundations of Bioinformatics			
BIOI 3000*	Applied Bioinformatics			
BIOI 3500***	Adv Bioinformatics Pmgg			
BIOI 4860****	BIOI Algorithms			
BIOI 4870****	DB Search & Pattern Disc			
BIOI 4890**	Comp Genetic Seq Analysis			
BIOI 4970*	Sr Project in BIOI I			
BIOI 4980**	Sr Project in BIOI II			
*Fall only ** Spring only ***Even Spring only **** Odd Fall only				
Remaining:		24	0	0
ELECTIVE COURSES ( 4 CREDIT HR)				
Course #	Course Name	Grade	Cr	Notes
CIST 1300 or CSCI 1200 or CSCI 1280				
				If not waived
Remaining:		4	0	0
BSBI ACADEMIC RULES				
<ol style="list-style-type: none"> <li>1. A minimum of 120 credit hours and a 2.5 GPA are required to graduate from the College of IS&amp;T with a Bachelor's Degree.</li> <li>*2. All courses must be "C-" or higher with the exception of CIST 1400 &amp; CSCI 1620, which require a grade of " C" or higher.</li> <li>3. Students must see an IS&amp;T academic advisor regarding the specific requirements for their major.</li> <li>4. Students may follow the UNO catalog requirements in effect at the time of their first enrollment, provided continuous enrollment is maintained (fall, spring, fall, spring.....).</li> <li>5. Students are accountable for prerequisites of all courses listed.</li> <li>6. Thirty of the last 36 hours must be University of Nebraska at Omaha courses.</li> <li>7. Up to 4 semester hours of different physical education activity courses may count toward the degree.</li> <li>8. A repeated course may count only once for graduation. (Exceptions are internships, independent studies, physical education activity courses, and special topic courses, provided each course is a new topic.)</li> <li>9. ENGL 1050, ENGL 1090, ENGL 1100, MATH 1010, and MATH 1210 do not count as part of the 120 credit hours required for the degree program.</li> </ol>				
Notes:				