



# College of Information Science and Technology

## Bachelor of Science in Bioinformatics

### Associate to Bachelor's (A→B) Articulation Agreement

For more information contact:

Office of Student Services  
Metropolitan Community College  
Elkhorn Valley Campus  
(402) 289-1205  
Fort Omaha Campus  
(402) 457-2705  
South Omaha Campus  
(402) 738-4505  
Sarpy County Center  
(402) 537-3800  
Fremont Center  
(402) 721-2507  
Applied Technology Center  
(402) 763-5800  
[www.mccneb.edu](http://www.mccneb.edu)

University of Nebraska at Omaha  
College of Information  
Science and Technology  
Office of Academic Advising  
(402) 554-3819  
[www.ist.unomaha.edu](http://www.ist.unomaha.edu)

2016

### Pre-Bioinformatics (LBIAS)

#### Associate in Science

General Education Requirements.....30

Metropolitan Community College Courses				University of Nebraska at Omaha Equivalencies			
Communication							
ENGL	1010	English Composition I	4.5	ENGL	1150	English Composition	3
ENGL	1020	English Composition II	4.5	ENGL	1160	English Composition	3
SPCH	1110	Public Speaking	4.5	SPCH	1110	Public Speaking Fundamentals	3
Mathematics							
MATH	2410	Calculus I	7.5	MATH	1950	Calculus I	5
Other							
HMRL	1010	Human Relations Skills *	4.5	CMST 2010 Interpersonal Communication			3
INFO	1001	Information Systems & Literacy	4.5	No equivalent for Bioinformatics			3

Major Requirements for Pre-Bioinformatics.....69

Mathematics / Computer Science										31.5	
INFO	1003	Intro to Computer Programming**				4.5	No equivalent for Bioinformatics				
INFO	1521	Java Programming I				4.5	CIST	1400	Introduction to Computer Programming	3	
INFO	2530	Data Structures Using JAVA				4.5	CSCI	1620	Introduction to Computer Science II	3	
Social Sciences – Select 2 courses, making sure that at least one course meets a Diversity requirement (marked –DG or –DUS)											
ECON	1000	POLS	2070	SOCI	2160 –DUS	4.5	Social Sciences Requirement			6	
ECON	1100	PSYC	1010	SOCI	2110						
GEOG	1010 –DG	SOCI	1010	SPCH	1220						
GEOG	1050 –DG	SOCI	1250	SPCH	1300						
POLS	2050	SOCI	2050								
Humanities & Fine Arts – Select 2 courses, making sure that at least one course meets a Diversity requirement (marked –DG or –DUS)											
ARTS	1000 –DUS	HIST	1010	PHIL	2030	4.5	Humanities & Fine Arts Requirement			6	
ARTS	1010	HIST	1020	PHIL	2200 –DG		One additional Humanities & Fine Arts course will be required at UNO.				
ARTS	1110	HIST	1110 –DG								
ARTS	1120	HIST	1120 –DG								
ENGL	2460	HIST	1050	FREN	1010 – DG						
ENGL	2510	MUSC	1050	GERM	1010 – DG						
ENGL	2520	PHIL	1010	JAPN	1010 – DG						
ENGL	2530 –DUS	PHIL	1100	SPAN	1110 – DG						
Natural Sciences										31.5	
BIOS	1111	Biology I				5					
BIOS	1121	Biology II				5	BIOL	1450	Biology I	5	
BIOS	1130	Biology III				5	BIOL	1750	Biology II (Elective Course)	5	
BIOS	2050	Genetics				4.5	BIOL	2140	Genetics	4	
CHEM	1210 & 1211	General Chemistry: Parts I & II OR				6	CHEM	1180 & 1184 General Chemistry I			4
CHEM	1212	General Chemistry I: Accelerated					CHEM	1180 & 1184 General Chemistry I			
CHEM	1220	General Chemistry II				6	CHEM	1190 & 1194 General Chemistry II			4
CHEM	2310	Fundamentals of Organic Chemistry / Lab				6	CHEM	2210 Fundamentals of Organic Chemistry			
CHEM	2310L	Lab					CHEM	2214 lab			
Diversity											
MCC Requirement						UNO Requirement					
Met by any course marked –DG or –DUS above from Humanities and Fine Arts or Social Sciences above.						Global Diversity Requirement				3	
						Select 1 course marked –DG above					
						U.S. Diversity Requirement				3	
						Select 1 course marked –DUS above					
– Courses double-listed under the Diversity requirement and other categories can meet two general education requirements.											

Total Required Hours.....99

Total Transferable Hours.....62 semester hours

#### NOTES

\* Course transfers to UNO as a Social Science general education requirement

Students will be required to take an additional math course at the University of Nebraska at Omaha.



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#### NE-INBRE

The NE-INBRE (Idea Networks of Biomedical Research Excellence) Scholars program is a two year opportunity beginning after a student's sophomore year. The goal of the program is to enhance research opportunities for undergraduate students in biomedical sciences. Three undergraduate students are selected each year as NE-INBRE scholars through a scholarship application process. Interested students need to apply to UNO at the beginning of their sophomore year.

#### **BIIG**

BIIG stands for UNO's **B**io**I**nformatics Interest **G**roup. The group supports research and introduces students to information technology and bioinformatics. BIIG meets a couple times each semester for presentations given by guest speakers. Some past speakers have included Dr. Sandor Lovas from the Dept. of Biomedical Sciences at Creighton University and Dr. Igor Rogozin from the National Institutes of Health, the National Library of Medicine, and the National Center for Biotechnology Information. The meetings provide a sense of community and belonging as well as a chance for networking for Bioinformatics undergraduate and graduate students, faculty members, and others in the field. For More information contact Dr. Mark Pauley at 402-554-4954.