METROPOLITAN Community College

Nebraska UNIVERSITY OF Omaha

College of Information Science and Technology

Bachelor of Science in Computer Science

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 Center
(402) 537-3800
Fremont Area Center
(402) 721-2507
Applied Technology Center
(402) 763-5800
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

2016

Computer Technology Transfer – Computer Science (CTSAS)
Associate in Science

General Education Requirements ....47 – 48.5

Communications					Mathematics				
ENGL	1010	English Composition I	FAS	4.5	MATH	1420	College Algebra **	FAS	5
ENGL	1020	English Composition II	FAS	4.5	**Other**				
SPCH	1110	Public Speaking	FAS	4.5	HMRL	1010	Human Relations Skills *		4.5
Social Sciences	*Select two courses – one should be D-G or D-US*				INFO	1001	Information Systems & Literacy		4.5
ECON	1000	Macroeconomics		4.5	**Natural Sciences**	*Select one of the following – all w/Lab*			
ECON	1100	Microeconomics		4.5	CHEM	1010	College Chemistry		6
GEOG	1010	Fundamentals of Geography *(D-G)*		4.5	PHYS	110ABC	Principles of Physics IA, IB, IC		7.5
GEOG	1050	Intro. to Human Geography *(D-G)*		4.5	BIOS	1010	General Biology		6
GEOG	2150	World Regional Geography *(D-G)*		4.5	GEOG	1150	Intro to Phys Geo-Weather & Climate		6
HMSV	1010	Introduction to Human Services		4.0	GEOG	1160	Intro to Phys Geo-Landforms		6
POLS	2050	American National Government		4.5	GEOG	1210	Intro to Physical Geology		6
PSYC	1010	Introduction to Psychology		4.5	SCIE	1300&1310	Astronomy & Lab		6
SOCI	1010	Introduction to Sociology		4.5					
SOCI	1250	Introduction to Anthropology		4.5	**Elective** – *Select one course*				
SOCI	2050	Current Social Problems		4.5	MATH	1310	Intermediate Algebra		4.5
SOCI	2060	Multicultural Issues	(D-US)	4.5	*If required as prerequisite for College Algebra*				
SOCI	2160	Marriage & the Family	(D-US)	4.5	Or select a Humanities / Fine Arts course from the Transfer Course Options listed in the MCC catalog. See the University-Wide General Education Guide for specifics on how each course will transfer.				
Diversity / Cultural Studies – *guide to UNO gen. ed. requirements*									
(D-US) – Meets the Diversity – US requirement at UNO									
(D-G) - Meets the Diversity – Global requirement at UNO									

To complete the UNO University-Wide General Education Requirements, students with this Computer Technology Transfer degree will complete one more **Natural & Physical Science** course, and two or three **Humanities and Fine Arts** courses. When choosing courses keep in mind both UNO's Diversity requirements, one course marked Global (D-G) and one marked US (D-US).

Major Requirements for Computer Technology Transfer – Computer Science 51

INFO	1003	Introduction to Computer Programming	
INFO	1023	Networking Essentials	4.5 = CIST 2010 Computer & Communication Systems 3 hrs.
INFO	1311	Web Page Creation	4.5 = CIST 1300 Intro to Web Development 3 hrs.
INFO	1521	Java Programming I	4.5 = CIST 1400 Intro to Computer Programming 3 hrs.
INFO	1531	Java Programming II	4.5 = CSCI 2980 Topics in Computer Science 3 hrs.
INFO	2521	Intel Assembly Language I	4.5
INFO	2531	Intel-Assembly Language II #	4.5 = CSCI 2750 Mainframe Assembly Language Programming (INFO 2521 & 2531)
INFO	2530	Data Structures Using Java	4.5 = CSCI 1620 Computer Science II 3 hrs. (INFO 1521 & INFO 1531)
MATH	2410	Calculus I **	7.5 = MATH 1950 Calculus I 5 hrs.
MATH	2411	Calculus II	7.5 = MATH 1960 Calculus II 5 hrs.

Total Required Hours 98-99.5

FAS – Course meets Fundamental Academic Skills category of UNO University-Wide General Education Requirements
* Course is equivalent to UNO's CMST 2010 and transfers as Social Science general education credit.
# Course counts toward Computer Science Core Extension requirement at UNO or toward required electives
** Course has prerequisites. Please consult MCC's current catalog for more information.

The two institutions agree that if a student has been awarded the Associate in Science Degree in Computer Technology Transfer from Metropolitan Community College then s/he:
1. Will be permitted to enter with junior class standing in the College of Information Science and Technology and to transfer the maximum of 66 semester hours earned in the Associate in Science Degree in Computer Technology Student must have a minimum overall grade point average of 2.5 or higher as well as a "C" or better in each course.
2. Will be permitted to complete all additional University of Nebraska at Omaha courses set forth through program options in the undergraduate catalog in effect at the time of MCC matriculation, not to exceed four catalog years. However, changes in program will be recommended in order to better prepare students. See a UNO advisor regarding catalog changes.
3. Will be awarded the Bachelor of Science in Computer Science degree from the College of Information Science and Technology, University of Nebraska at Omaha upon the completion of all degree requirements.

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A student who transfers from Metropolitan Community College to the University of Nebraska at Omaha (UNO) must review and declare the Computer Science program option in the UNO catalog. Refer to the UNO undergraduate catalog in effect at the time you started at MCC (not to exceed four catalog years) to review program options for coursework beginning the junior year of academic standing.

The Computer Science program provides a firm foundation in the theory and application of computing while allowing for additional concentration in areas of choice, such as information system, mainframe computing, computer networking, telecommunications, date and knowledge engineering and software development. This concentration is based on building computer tools that make computers useful.

Optional Concentrations available for CS majors at UNO:

Game Programming Concentration
The field of Game Programming is ever expanding. As a form of entertainment the popularity of video games is at a high and they are increasingly being used for professional purposes such as learning tools and simulations. With the proliferation of this area of Computer Science comes the demand for Game Programmers. Those desiring a career in Game Programming require a specific skill set within Computer Science.

Information Assurance Concentration: The Information Assurance concentration supplements and extends the Computer Science (CS) curriculum by focusing on the foundational principles, work examples, theory and skills necessary to analyze, design and construct secure information systems. These courses address the fundamental technologies, policy, assurance and ethics involved in the protection of information systems. Hands-on experience is gained through numerous laboratory exercised associated with each course. The concentration is designed to accommodate students with either a CS or MIS background.

Internet Technologies Concentration: The Internet Technology (IT) concentration supplements the Computer Science (CS) curriculum by focusing on the expertise needed to implement solutions that involve contemporary Internet technologies and software applications. The concentration is designed to accommodate the differing backgrounds of MIS and CS majors. The requirements of either the MIS or CS majors provide the background necessary to pursue the IT concentration. The concentration makes extensive use of existing MIS and CS courses, building on what has been accomplished in these programs. The IT concentration provides an extensive hands-on, project-based experience for the students.

Integrated Undergraduate/Graduate Track in Computer Science at UNO:
The department of Computer Science offers an integrated undergraduate/graduate track that provides undergraduate students in the college of IS&T an option to complete the undergraduate degree (BS) in CSCI and the graduate degree (MS) in CSCI in five years. The IUG provides an accelerated master's program in computer science and is designed for students who are motivated and willing to take on early the challenges related to graduate education. For more information contact UNO's College of Information Science & Technology undergraduate advising office at 402-554-3819.

For a copy of UNO's Matriculation Form visit http://www.ist.unomaha.edu/forms/csci/mat_form.pdf