NAME:	STUDENT ID#:	LAST UPDATED: 11/25/19

Optional Concentrations

MAJOR: COMPUTER SCIENCE

UNIVERSITY OF NEBRASKA AT OMAHA
COLLEGE OF INFORMATION SCIENCE & TECHNOLOGY

GAME PROGRAMMING & DESIGN (18 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
CORE COURSES (9 HRS)				
CSCI 2510	Intro to Game Prgrmng			
CSCI 3510	Adv Game Programming			
CSCI 4620	Computer Graphics			
ELECTIVE COURSES* (9 HRS)				
CSCI 2310	Video Game Design			
CSCI 4250	Human-Comp Interaction			
CSCI 4260	UI Design & Development			
CSCI 4450	Intro to Artificial Intelligence			
CSCI 4660	Automata, Computability & Formal Languages			
CSCI 4850	Database Mgmt Systems			
ART 3140	Comp Generated Imagery			
ART 3160	Game Design as Art			
Note: Limit of 1 Non-CSCI Elective Course				
Remaining:	18	Compl:	0	

INFORMATION ASSURANCE (18 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
CORE COURSES (9 HRS)				
CYBR 3600	Info Security, Policy & Aware			
CYBR 4360	Found of Info Assurance			
CYBR/CSCI 4380	Comp & Network Forensics			
ELECTIVE COURSES* (9 HRS)				
CYBR/CIST 4540	Computer Security Mgmt			
CSCI 4560	Nmbr Theory&Cryptography			
CYBR 3570	OR Cryptography			
CYBR 3350	Security Admin-Linux OR			
CYBR 3370	Security Admin-Windows			
CYBR 4450	Host-Based Vulnerability			
CYBR 4460	Network-Based Vulnerability			
Remaining:	18	Compl:	0	

INTERNET TECHNOLOGIES (18 CREDIT HRS) ADDED 11/25/19				
Course #	Course Name	Grade	Cr	Notes
CORE COURSES (9 HRS)				
CSCI 2850	Prgrmming on the Internet			
CSCI 3830	Adv JAVA Programming			
CSCI 3850	Funds of Web Search Tech			
ELECTIVE COURSES* (9 HRS)				
CSCI 3450	Natural Language Proc			
CSCI 4100	Intro to Algorithms			
CSCI 4150	Graph Theory & Apps			
CSCI 4250	Human Computer Interactions			
CYBR 4460	Network Vuln. Discovery			
CSCI 4900	Internet Systems Devlp.			
CSCI 4470	Pattern Rcognitions			
CSCI 4850	Database Management			
CSCI 4890	Data Warehousing & Data Mining			
Remaining:	18	Compl:	0	

ARTIFICIAL INTELLIGENCE CONCENTRATION (18 CREDIT HRS)				
Course #	Course Name	Grade	Cr	Notes
CORE COURSES (6 HRS)				
CSCI 3450	Natural Language Processing			
CSCI 4450	Intro to Artificial Intelligence			
ELECTIVE COURSES* (12 HRS)				
CSCI 2510	Intro to Game Programming			
CSCI 3510	Adv. Game Programming			
CSCI 3850	Foundations of Web Search Tech			
CSCI 4100	Intro to Algorithms			
CSCI 4150	Graph Theory & Application			
CSCI 4250	Human Comp Interaction			
CSCI 4470	Pattern Rcognitions			
CSCI 4850	Database Management			
CSCI 4890	Data Warehousing & Data Mining			
ISQA 4010	Business Ingelligence			
MATH 4450	Machine Learning & Data Mining			
Remaining:	18	Compl:	0	

* Elective lists are not exhaustive. Students may take other relevant courses as electives with prior approval of the Computer Science Undergraduate Program Committee (UPC).

CSCI majors may complete the concentrations above and apply selected courses toward the Core Extension area.

Students are responsible for prerequisite courses.

This matriculation form corresponds to the 2019-2020 UNO Catalog.

Last update: March 2019