NAME:					STUDENT	ID#:				LAST UP	DATED:			
DEGREE PLANS:				STUDENT GROUPS:										
					Co	mputer Science Optional Con	centrat	ions						
GAME PROGRAMMING & DESIGN (18 CREDIT HRS)				INFORMATION ASSURANCE (18 CREDIT HRS)				INTERNET TECHNOLOGIES (18 CREDIT HRS)						
Course #	Course Name	Grade	Cr	Notes	Course #	Course Name	Grade	Cr	Notes	Course #	Course Name	Grade	Cr	Notes
CORE COURSES (9 HRS)				CORE COURSES (6 HRS)				CORE COURSES (6 HRS)						
CSCI 2510	Intro to Game Prgrmng				CYBR 3600	Info Security, Policy & Aware				CSCI 2850	Prgrmming on the Internet			
CSCI 3510	Adv Game Programming				CYBR 4360	Foundations of Cybersecurity				CSCI 4650	Intro to Cloud Computing			
CSCI 4620	Computer Graphics				CSCI/CYBR 4380	Digital Forensics				ELECTIVE COURSES* (12 HRS)				
ELECTIVE COURSES* (9 HRS)				ELECTIVE COURSES* (12 HRS)				CSCI 2830	Object Oriented Software Eng	r. Fund.				
CSCI 1280	Intro to Computational Science				CYBR 2600	Systems Administration				CSCI 3830	Adv Java Programming			
CSCI 2620	2-D Graphics and Image Processing				CSCI/CYBR 3450	Natural Language Processing				CSCI 3850	Found of Web Search Tech			
CSCI 4250	Human-Comp Interaction				CSCI/MATH 456	Nmbr Theory&Cryptography				CSCI 3450	Natural Language Proc			
CSCI 4260	User Experience Design				CYBR 3570	OR Cryptography				CSCI 4150	Graph Theory & Applications			
CSCI 4450	Intro to Artificial Intelligence				CYBR 4390	Mobile Device Forensics				CSCI 4250	Human Computer Interactions	6		
CSCI 4660	Automata, Comp & Formal Lang.				CSCI/CYBR 4430	Quantum Computing and Cryptography				CYBR 4460	Network Vuln. Discovery			
CSCI 4850	Database Mgmt Systems				CYBR 4440	Industrial Control System Security				CSCI 4900	Internet Systems Devlp.			
ART 3140	Comp Generated Imagery				CYBR 4450	Host-Based Vulnerability				CSCI 4470	Pattern Rcognitions			
ART 3160	Game Design as Art				CYBR 4460	Network-Based Vulnerability				CSCI 4850	Database Management Syster	ns		
Note: Limit of 1 Non-CSCI Elective Course				CYBR/CIST 4540 Computer Security Mgmt			CSCI 4890	Data Warehousing & Data Mi	ning					
Remaining:	18	Compl:	0		CSCI 4650	Intro to Cloud Computing				Remaining:	18	Compl:	0	
					CYBR 4360	Principles of Secure Systems Design								

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Remaining:

	ARTIFICIAL INTELLIGENCE (18	CREDIT	HRS)	
Course #	Course Name	Grade	Cr	Notes
CORE COURSE	S (6 HRS)			
CSCI 3450 OR	Natural Language Processing			
CSCI 3470	Fund & Algorithms of Machine Learn	ning		
CSCI 4450	Intro to Artificial Intelligence			
ELECTIVE COU	RSES* (12 HRS)			
CSCI 2410	Intro to Python and Data Analytics			
CSCI 2510	Intro to Game Programming			
CSCI 3510	Adv. Game Programming			
CSCI 3850	Foundations of Web Search Tech			
CSCI 4150	Graph Theory & Applications			
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			
PHIL 2010	Symbolic Logic			
CSCI 3450 OR	Natural Language Processing			
CSCI 3470	Fund & Algorithms of Machine Learn	ning		
Remaining:	18	Compl:	0	

SOFTWARE ENGINEERING (18 CREDIT HRS)										
Course #	Course Name	Grade	Cr	Notes						
CORE COURSES (6 HRS)										
CSCI 3830	Adv Java Programming									
CSCI 4250	Human Computer Interaction									
ELECTIVE COURSES* (12 HRS)										
CSCI 2830	Object-Orientated Software Engineering Fund.									
CSCI 4260	User Experience Design									
CSCI 4850	Database Management Systems									
CSCI 4900	Internet Systems Development									
CIST 4910	Systems Dev. in Open Source Communities									
CSCI 4650	Intro to Cloud Computing									
CSCI 4950*	Internship in Computer Science									
Remaining:	18	Compl:	0							

Compl:

0

 $\ensuremath{^*}$ Internship must be a software engineering position. Student should submit the

job description for review and approval by the CS undergraduate Program committee

* Elective lists are not exhaustive. Students may take other relevant courses as e

CSCI majors may complete the concentrations above and apply selected courses

Students are responsible for prerequisite courses. Last update: March 2024

Advising worksheet corresponds to the 2024-2025 UNO Catalog.

All courses must be C- or higher

UNIVERSITY OF NEBRASKA AT OMAHA COLLEGE OF INFORMATION SCIENCE & TECHNOLOGY