

# **BACHELOR OF SCIENCE**

## **COMPUTER INFORMATION SYSTEMS**

Instruction delivered online

The Bachelor of Science: Computer Information Systems is a four-year, online program that will provide students with an enhanced knowledge of Information Systems, System Administration, Devops, and other Information Technology disciplines. Graduates are qualified to work in an array of fields ranging from programmers to networking architects whether it be in public sector or private.

### **YEAR ONE**

<b>FALL SEMESTER</b>		<u>Credits</u>	<b>SPRING SEMESTER</b>		<u>Credits</u>
CS***	Computer Science Elective	3-4	CS146	Advanced Computer Hardware	4
CS144	Computer Hardware Systems	4	CS207	Computer Security	3
EN111	College Composition	4	CS227	Networking Technologies	4
ES101	Fitness & Wellness	2	EN112	Content Area Comp.& Research	<u>4</u>
NA113	Native American Awareness	<u>1</u>			
TOTAL		14-15	TOTAL		15

### **YEAR TWO**

<b>FALL SEMESTER</b>		<u>Credits</u>	<b>SPRING SEMESTER</b>		<u>Credits</u>
CS204	Web Page Design	3	CS221	Computer Programming	4
CS225	Microsoft Desktop Operating Systems	3	CS222	Windows Server Administration	4
CS231	Linux Administration	4	CS233	Advanced Routing	4
CS232	Introduction to Routing	4	CS271	Cooperative Education	<u>5</u>
MA***	Mathematics Elective	<u>4</u>			
	MA113, MA114, MA116, or MA206				
TOTAL		18	TOTAL		17

### **YEAR THREE**

<b>FALL SEMESTER</b>		<u>Credits</u>	<b>SPRING SEMESTER</b>		<u>Credits</u>
CS205	Database Management	3	CS310	Introduction to the Internet of Things	3
CS320	Configuration/Automation Mgmt	3	CS340	Advanced Database Management	3
CS330	Introduction to Data Structures	4	CS345	Introduction to Application Programming	3
MA118	Analytic Trigonometry	4		Interfaces (APIs)	
NA***	Native Studies Elective	<u>4</u>	*****	Communication Elective	3-4
	NA123 or NA125			EN107 or NL105	
			*****	Science Elective w/Lab	<u>4</u>
TOTAL		18	TOTAL		16-17

### **YEAR FOUR**

<b>FALL SEMESTER</b>		<u>Credits</u>	<b>SPRING SEMESTER</b>		<u>Credits</u>
CS410	Virtualization Infrastructure	4	CS420	Cloud Computing Technologies	3
CS430	Security Systems & Data Storage	4	CS445	Computer Vision	4
CS435	Artificial Intelligence (AI)	4	CS490	Senior Project	4
*****	Communication Elective	<u>3-4</u>	*****	Social Science Elective	<u>3-4</u>
	BU193 or EN219				
TOTAL		15-16	TOTAL		14-15

**Required credits for this curriculum = 127-131**