CYBERSECURITY MANAGEMENT BA/BS

The Cybersecurity Management program is designed to prepare students for industry. The Cyber Management major fuses the three components: a strong cybersecurity management base, computer programming, and business management. The curriculum is designed to be very focused on industry needs and skills. Students take courses in networking, advanced cyber security and pentesting.

The goals of the Cyber Management program is to provide students with learning experiences in both the classroom and laboratory so that they will be well-prepared to:

- · Design and implement object-oriented and imperative programs
- · Understand algorithms and data structures
- · Understand relational databases, and network development
- · Understand online safety in the context of the wider world
- · Understand the different types of malware, including viruses and trojans, network security, and cryptography
- · Identity theft and risk management
- · Students will explain the concepts, theories, and practices in the functional areas of business
- · Students will prepare professional oral and written forms of communication
- · Students will evaluate and apply information technology in support of management decision making

General Education Requirements

Code	Title	Credits
Written Communication		
Select one of the following:		6.00
ENGL-101	WRITING AND RHETORIC I	
& ENGL-102	and WRITING AND RHETORIC II	
ENGL-109	COLLEGE WRITING AND RESEARCH	
Oral Communication		
Select one from the following	ng:	3.00
COMM-101	FUNDAMENTALS OF ORAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	
Mathematical Ways of Know	wing	
Select one of the following:		3.00-5.00
MATH-143	PRECALCULUS I: ALGEBRA	
MATH-147	PRECALCULUS	
MATH-153	STATISTICAL REASONING	
MATH-170	CALCULUS I	
MATH-253	STATISTICAL METHODS FOR THE SCIENCES	
MATH-257	MATHEMATICS FOR ELEMENTARY TEACHERS II	
MTHPT-130	FINITE MATHEMATICS	
MTHPT-137	MATH FOR TECHNOLOGY	
MTHPT-153	STATISTICAL REASONING	
Humanistic & Artistic Ways	s of Knowing	
Select one course from two	o categories:	6.00-8.00
Literature		
ENGL-175	LITERATURE AND IDEAS	
ENGL-257	WORLD CLASSICS	
ENGL-258	INTERNATIONAL LITERATURE	
ENGL-260	NATIVE AMERICAN LITERATURE	
ENGL-261	MYTHOLOGIES	
Arts		
ART-100	INTRODUCTION TO ART	
HUM-101	THE ART AND HISTORY OF THE MOTION PICTURE	
HUM-150	INTRODUCTION TO THE ARTS	

MUC 101	CLIDVEV OF MUCIC	
MUS-101	SURVEY OF MUSIC	
MUS-102	MUSIC IN AMERICA	
MUS-150	WORLD MUSIC	
MUS-151	HISTORY OF MUSICAL THEATER	
MUS-152	HISTORY OF JAZZ AND POPULAR MUSIC STYLES	
THEA-101	SURVEY OF THE THEATER	
Language		
NP-101	NEZ PERCE LANGUAGE AND CULTURE	
NP-102	NEZ PERCE LANGUAGE AND HISTORY	
SPAN-101	ELEMENTARY SPANISH I	
SPAN-102	ELEMENTARY SPANISH II	
Scientific Ways of Knowing		
BIOF-100	INTRODUCTION TO BIOINFORMATICS	3.00
CS-108	INTRODUCTION TO COMPUTER SCIENCE	3.00
Social & Behavioral Ways of	-	
Select one course from two		6.00
ANTH-102	CULTURAL ANTHROPOLOGY	
ANTH-120	WORLD PREHISTORY	
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ECON-201	PRINCIPLES OF MACROECONOMICS	
ECON-202	PRINCIPLES OF MICROECONOMICS	
GEOG-102	INTRODUCTION TO GEOGRAPHY	
HIST-101	WORLD HISTORY I	
HIST-102	WORLD HISTORY II	
HIST-111	UNITED STATES HISTORY I	
HIST-112	UNITED STATES HISTORY II	
HRPT-184	DIVERSITY IN ORGANIZATIONS	
HRPT-185	HUMAN RELATIONS IN ORGANIZATIONS	
POLS-101	AMERICAN NATIONAL GOVERNMENT	
POLS-237	INTERNATIONAL POLITICS	
POLS-285	COMPARATIVE GOVERNMENT	
PSYC-101	INTRODUCTION TO GENERAL PSYCHOLOGY	
PSYC-205	LIFESPAN DEVELOPMENTAL PSYCHOLOGY	
SOC-101	INTRODUCTION TO SOCIOLOGY	
SOC-102	SOCIAL PROBLEMS	
SS-184	DIVERSITY IN ORGANIZATIONS	
SS-185	HUMAN RELATIONS IN ORGANIZATIONS	
Diversity		
Select one of the following:		3.00-4.00
ANTH-102	CULTURAL ANTHROPOLOGY	
ANTH-120	WORLD PREHISTORY	
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ANTH-360	RACE AND ETHNICITY	
COMM-345	INTERCULTURAL COMMUNICATION	
ENGL-258	INTERNATIONAL LITERATURE	
ENGL-474	NATIVE AMERICAN WRITTEN LITERATURE	
GEOG-102	INTRODUCTION TO GEOGRAPHY	
HIST-101	WORLD HISTORY I	
HIST-102	WORLD HISTORY II	
HIST-111	UNITED STATES HISTORY I	
HIST-112	UNITED STATES HISTORY II	
HRPT-184	DIVERSITY IN ORGANIZATIONS	

Total Credits		36.00-41.00
Select 16 credits of langua	ge if selecting Bachelor of Arts Degree	16.00
Foreign/Heritage Language	e	
ID-301A	HELLS CANYON INSTITUTE	
ID 300A - 300Z (see cou	rse descriptions for options)	
Select one of the following	:	3.00
Integrative Seminar: Ethics	s & Values	
SS-184	DIVERSITY IN ORGANIZATIONS	
SPAN-202	INTERMEDIATE SPANISH II	
SPAN-201	INTERMEDIATE SPANISH I	
SPAN-102	ELEMENTARY SPANISH II	
SPAN-101	ELEMENTARY SPANISH I	
SOC-101	INTRODUCTION TO SOCIOLOGY	
POLS-285	COMPARATIVE GOVERNMENT	
NP-102	NEZ PERCE LANGUAGE AND HISTORY	
NP-101	NEZ PERCE LANGUAGE AND CULTURE	
KIN-220	SOCIAL-CULTURAL ASPECTS OF SPORTS	
ID-300C	ETHICS AND IDENTITY	

Program Requirements

Code	Title	Credits
Major Requirements		
CS-111	FOUNDATIONS OF PROGRAMMING	4.00
CS-211	COMPUTER SCIENCE II	4.00
CS-226	SQL: STRUCTURED QUERY LANGUAGE	3.00
CYB-251	NETWORKING I	4.00
CYB-252	NETWORKING II	4.00
CYB-253	NETWORKING III	4.00
CYB-254	NETWORKING IV	4.00
CYB-271	CYBERSECURITY I	4.00
CYB-272	CYBERSECURITY II	4.00
CYB-273	CYBERSECURITY III	4.00
CYB-274	CYBERSECURITY IV	4.00
Select one of the following:		3.00
ECON/PSYC/SS-300	STATISTICAL METHODS	
Upper Division Requirement	s	
BUS-311	FOUNDATIONS OF MANAGEMENT THEORY	3.00
BUS-360	LEADERSHIP	3.00
BUS-365	BUSINESS LAW I	3.00
BUS-370	PRODUCTION AND OPERATIONS MANAGEMENT	3.00
CS-311	ALGORITHMS AND DATA STRUCTURES	4.00
CS-480	CAPSTONE DESIGN PROJECT	4.00
CS-494	INTERNSHIP IN COMPUTER SCIENCE	4.00
CYB-300	CYBER ETHICS	3.00
CYB-360	CYBERSECURITY MANAGEMENT	3.00
Elective Credit		7.00
Total Credits		83.00

Sequential Plan of Study

First Year First Year First Year Authematical Ways of Knowing 3.00 CDRE Mathematical Ways of Knowing 3.00 CDRE Oral Communication 3.00 CS-118 HOLOUCTION TO COMPUTER SCIENCE 3.00 ESHI1 FOUNDATIONS OF PROGRAMMING 3.00 ESHI2-101 WITHS AND RIFETORICI 3.00 BOF-102 INTRODUCTION TO BIOINFORMATICS 3.00 CDRE SIDRE SCHOOL 3.00 CDRE COMPUTER SCIENCE II 3.00 CS-21 COMPUTER SCIENCE II 3.00 CS-21 COMPUTER SCIENCE II 3.00 CS-22 WITHIN AND RIFEDRICI II 3.00 CS-24 WITHIN AND RIFEDRICI II 3.00 CS-25 WITHIN AND RIFEDRICI II 3.00 CS-26 SIL STRUCTURED QUERY LANGUAGE 3.00 CS-26 SIL STRUCTURED QUERY LANGUAGE 3.00 CS-27 CYERREGUNTY I 3.00 CWB-27 CYERREGUNTY I 4.00 CWB-27 CYERREGUNTY I 4.00 <	Course	Title	Credits	
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CS-311 ALGORITHMS AND DATA STRUCTURES 4.00 CYB-360 CYBERSECURITY MANAGEMENT 3.00 Elective Elective Credits 3.00				
CYB-360 CYBERSECURITY MANAGEMENT 3.00 Elective Elective Credits 3.00	CORE	Integrative Seminar. Ethics & Values	3.00	
Elective Elective Credits 3.00		ALGORITHMS AND DATA STRUCTURES	4.00	
			3.00	
Credits 13.00	Elective		3.00	
		Credits	13.00	

	Total Credits	119.00
	Credits	15.00
Elective	Elective Credits	4.00
CS-494	INTERNSHIP IN COMPUTER SCIENCE	4.00
CS-480	CAPSTONE DESIGN PROJECT	4.00
CYB-300	CYBER ETHICS	3.00
Spring		

Graduates with a BA/BS in Cybersecurity Management go on to obtain careers in a variety of fields:

- Computer Science
- Information Security Analyst