## **COMPUTER SCIENCE BA/BS**

The Computer Science program is designed to prepare students for industry or graduate work in Computer Science or Management Information Systems. The Computer Science major uses a traditional computer science curriculum, with requisite mathematically rigor, and is based on the Association of Computing Machinery (ACM) core curricula recommendations. The curriculum is designed to be very flexible and allow students to use credits from the Associates of Information Systems and Information Systems Analysis towards this degree. The degree is also designed to allow students to use Biology courses towards the degree for students who are interested in pursuing a Bioinformatics degree in graduate school.

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

- 1. Think critically and apply knowledge in novel contexts;
- 2. Design and implement object-oriented and imperative programs;
- 3. Understand algorithms and data structures;
- 4. Understand relational databases, operating system kernels, and network software development;
- 5. And, perform basic laboratory analysis.

### **General Education Requirements**

Code	Title	Credits
Written Communication		
Select one of the following	:	6.00
ENGL-101 & ENGL-102	WRITING AND RHETORIC I and WRITING AND RHETORIC II	
ENGL-109	COLLEGE WRITING AND RESEARCH	
Oral Communication		
Select one from the followi	ing:	3.00
COMM-101	FUNDAMENTALS OF ORAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	
Mathematical Ways of Kno	owing	
Select one of the following	:	3.00-5.00
MATH-143	COLLEGE ALGEBRA	
MATH-147	COLLEGE ALGEBRA AND TRIGONOMETRY	
MATH-170	CALCULUS I	
<b>Humanistic &amp; Artistic Ways</b>	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	
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	

NP-101   NEZ PERCE LANGUAGE AND CULTURE   NP-102   NEZ PERCE LANGUAGE AND HISTORY   SPAN-101   ELEMENTARY SPANISH   SPAN-102   ELEMENTARY SPANISH   SPAN-102   ELEMENTARY SPANISH   SPAN	Language		
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SPAN-101         ELEMENTARY SPANISH II           Schemiffic Ways of Knowins         INTRODUCTION TO COMPUTER SCIENCE         4.00           Select one of the following:         3.00-4.00           BIOG-100         INTRODUCTION TO BIOINFORMATICS         3.00-4.00           BIOL-120         PLANTS AND PEOPLE         4.00           BIOL-123         BIOLOGY IN FILM         5.00           BIOL-124         HUMAN BIOLOGY         4.00           BIOL-27         HUMAN BIOLOGY         4.00           CHEM-100         CONCEPTS OF CHEMISTRY         4.00           CHEM-101         CONCEPTS OF CHEMISTRY         4.00           CHEM-102         GENERAL, ORGANIC AND BIOCHEMISTRY         4.00           CHEM-111         PRINCIPLES OF CHEMISTRY         4.00           CHEM-112         PHYSICAL GEOLOGY         4.00           GEOL-120         HYSICAL GEOLOGY         4.00           GEOL-121         HYSICAL GEOLOGY         4.00           GEOL-121         HYSICAL GEOLOGY         4.00           GEOL-122         HYMINGUETION TO EARTH SYSTEMS         4.00           GIS-271         GEORRAPHIC INFORMATION SYSTEMS         4.00           GIS-272         GEORGAPHIC INFORMATION SYSTEMS         4.00           SI-13			
SPAN-1102         ELEMENTRATY SPANISH II           Schellic Ways of Knowing         4.00           Select one of the following:         3.00-4.00           Select one of the following:         3.00-4.00           BIOL-100         INTRODUCTION TO BIOINFORMATICS           BIOL-120         CONCEPTS OF BIOLOGY           BIOL-175         HUMAN BIOLOGY           BIOL-176         HUMAN BIOLOGY           CHEM 100         CONCEPTS OF CHEMISTRY           CHEM 101         CONCEPTS OF CHEMISTRY           CHEM 105         GENERAL, ORGANIC AND BIOCHEMISTRY           CHEM 111         PRINCIPLES OF CHEMISTRY I           GEOL-101         INTRODUCTION TO FORENIS SCIENCE           GEOL-102         INTRODUCTION TO EARTH SYSTEMS           GIS-271         GEORAPHIC INFORMATION SYSTEMS           GIS-272         GEORAPHIC INFORMATION SYSTEMS           GIS-273         GEORAPHIC INFORMATION SYSTEMS           GIS-271         GEORAPHIC INFORMATION SYSTEMS           GIS-272         GEORAPHIC INFORMATION SYSTEMS           GIS-273         GEORAPHIC INFORMATION SYSTEMS           GIS-274         GEORAPHIC HISTORY           NS-150         INTRODUCTION TO NATURAL SCIENCES I           NS-161         INTRODUCTION TO NATURAL SCIENCES I			
Scientific Mays of Knowing         4.0           Scient one of the following:         3.00-4.00           BIOF-100         INTRODUCTION TO BIOINFORMATICS           BIOL-120         INTRODUCTION TO BIOINFORMATICS           BIOL-123         BIOLOGY           BIOL-123         BIOLOGY IN FILM           BIOL-127         HUMAN BIOLOGY           BIOL-227         HUMAN ANATOMY AND PHYSIOLOGY I           CHEM-105         GENERAL, ORGANIC AND BIOCHEMISTRY           CHEM-105         GENERAL, ORGANIC AND BIOCHEMISTRY           CHEM-101         PRINCIPLES OF CHEMISTRY I           CEGOL-101         PHYSICAL GEOLOGY           GEOL-120         PHYSICAL GEOLOGY           GEOL-121         PHYSICAL GEOLOGY           GEOL-122         INTRODUCTION TO EARTH SYSTEMS           GES-271         GEOGRAPHIC INFORMATION SYSTEMS           GES-271         GEOGRAPHIC INFORMATION SYSTEMS           GIS-271         GEOGRAPHIC INFORMATION SYSTEMS           GIS-271         GEOGRAPHIC INFORMATION SYSTEMS           GIS-271         GEORAPHIC INFORMATION SYSTEMS           FINE SYSTEM         AUTHORATE SYSTEMS           GIS-271         GEORAPHIC INFORMATION SYSTEMS           FINE SYSTEM         AUTHORATION SYSTEMS           FINE SYSTEM			
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BIOL-227			
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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 II  HIST-112 UNITED STATES HISTORY II  HIST-114 DIVERSITY IN ORGANIZATIONS  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	ANTH-120		
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  HIST-1184 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	ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	
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  HIST-1184 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		PRINCIPLES OF MACROECONOMICS	
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	ECON-202	PRINCIPLES OF MICROECONOMICS	
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	GEOG-102	INTRODUCTION TO GEOGRAPHY	
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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			
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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	HIST-112	UNITED STATES HISTORY II	
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			
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SOC-102 SOCIAL PROBLEMS			
	SS-184		

otal Credits		37.00-43.0
elect 16 credits of lar	nguage if selecting Bachelor of Arts Degree	16.0
oreign/Heritage Lang		
ID-301A	HELLS CANYON INSTITUTE	
ID 300A - 300Z (see	e course descriptions for options)	
Select one of the follo	wing:	3.0
ntegrative Seminar: E	thics & 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	
HRPT-184	DIVERSITY IN ORGANIZATIONS	
HIST-112	UNITED STATES HISTORY II	
HIST-111	UNITED STATES HISTORY I	
HIST-102	WORLD HISTORY II	
HIST-101	WORLD HISTORY I	
GEOG-102	INTRODUCTION TO GEOGRAPHY	
ENGL-474	NATIVE AMERICAN WRITTEN LITERATURE	
ENGL-258	INTERNATIONAL LITERATURE	
COMM-345	INTERCULTURAL COMMUNICATION	
ANTH-360	RACE AND ETHNICITY	
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ANTH-120	WORLD PREHISTORY	
ANTH-102	CULTURAL ANTHROPOLOGY	0.00 1.0
Select one of the follo	wing:	3.00-4.0
Diversity		

# **Program Requirements**

Code	Title	Credits
Major Courses		
CS-101	COMPUTER SCIENCE SEMINAR	1.00
CS-111	FOUNDATIONS OF PROGRAMMING	4.00
CS-211	COMPUTER SCIENCE II	4.00
CS-226	SQL: STRUCTURED QUERY LANGUAGE	3.00
CS-250	COMPUTER ORGANIZATION AND ARCHITECTURE	4.00
CS-253	INTRO TO SYSTEMS PROGRAMMING	4.00
CS-311	ALGORITHMS AND DATA STRUCTURES	4.00
CS-360	SOFTWARE ENGINEERING	3.00
CS-401	FUTURE PROFESSIONALS SEMINAR	1.00
CS-430	OPERATING SYSTEMS	3.00
CS-435	COMPUTER NETWORKS	3.00
CS-480	CAPSTONE DESIGN PROJECT	4.00
MATH-170	CALCULUS I (Required if not completed as core)	
MATH-186	DISCRETE MATHEMATICS	3.00

#### 4 Computer Science BA/BS

Select 7 credits of Bioinformatics or Computer Science at the 300 level or above		7.00
Upper Division Electives		
Select 26 credits from	the following:	26.00
BIOF-100	INTRODUCTION TO BIOINFORMATICS	
BIOL-181	ECOLOGY, EVOLUTION, DIVERSITY OF LIFE	
BIOL-182	CONCEPTS IN CELLULAR MECHANISMS	
CITPT-111	WEB DEVELOPMENT BASICS	
MATH-175	CALCULUS II	
MATH-253	STATISTICAL METHODS FOR THE SCIENCES	
MATH-275	CALCULUS III	
PHYS-211	PHYSICS FOR SCIENTISTS AND ENGINEERS I	
PHYS-212	PHYSICS FOR SCIENTISTS AND ENGINEERS II	
Select any 300/400	) level course	
Electives		
Select 7 elective credi	its	7.00
<b>Total Credits</b>		81.00

#### Notes:

- 1. This program has been developed following the guidelines established by the CS 2001 "Computer Science Curriculum," and the CS 2008 "Computer Science Curriculum Interim Update" developed by the Association of Computing Machinery (ACM) and the IEEE Computer Society (IEEE-CS).
- 2. This program complies with all requirements for a Minor in Mathematics.
- 3. WBL: Work-based Learning.

# **Sequential Plan of Study**

Course	Title	Credits
First Year		
Fall		
CORE	MATH-143, MATH-147 or MATH-170	3.00-5.00
CORE	Oral Communication	3.00
CS-101	COMPUTER SCIENCE SEMINAR	1.00
CS-108	INTRODUCTION TO COMPUTER SCIENCE	4.00
ENGL-101	WRITING AND RHETORIC I	3.00
	Credits	14.00-16.00
Spring		
CORE	Humanistic & Artistic Ways of Knowing	3.00
CORE	Social & Behavioral Ways of Knowing	3.00
CS-111	FOUNDATIONS OF PROGRAMMING	4.00
CS-226	SQL: STRUCTURED QUERY LANGUAGE	3.00
ENGL-102	WRITING AND RHETORIC II	3.00
	Credits	16.00
Second Year		
Fall		
CORE	Social & Behavioral Ways of Knowing	3.00
CORE	Scientific Ways of Knowing	3.00
CS-211	COMPUTER SCIENCE II	4.00
CS-253	INTRO TO SYSTEMS PROGRAMMING	4.00
Program Requirement	BIOF or CS course 300/400 Level	4.00
	Credits	18.00
Spring		
CORE	Diversity	3.00
CS-250	COMPUTER ORGANIZATION AND ARCHITECTURE	4.00
CS-311	ALGORITHMS AND DATA STRUCTURES	4.00

MATH-186	DISCRETE MATHEMATICS	3.00
Program Requirement	BIOF or CS course 300/400 Level	3.00
	Credits	17.00
Third Year		
Fall		
CORE	Humanistic & Artistic Ways of Knowing	3.00
CS-360	SOFTWARE ENGINEERING	3.00
CS-430	OPERATING SYSTEMS	3.00
Program Requirement	Upper Division Electives	3.00
	Credits	12.00
Spring		
CS-401	FUTURE PROFESSIONALS SEMINAR	1.00
CS-435	COMPUTER NETWORKS	3.00
CORE	Integrative Seminar. Ethics & Values	3.00
Program Requirement	Upper Division Electives	3.00
Program Requirement	Upper Division Electives	3.00
	Credits	13.00
Fourth Year		
Fall		
Program Requirement	Upper Division Electives	3.00
Program Requirement	Upper Division Electives	3.00
Program Requirement	Upper Division Electives	3.00
Elective	Computer Science Elective Credits	3.00
	Credits	12.00
Spring		
CS-480	CAPSTONE DESIGN PROJECT	4.00
Program Requirement	Upper Division Electives	3.00
Program Requirement	Upper Division Electives	3.00
Program Requirement	Upper Division Electives	3.00
Elective	Computer Science Elective Credits	4.00
	Credits	17.00
	Total Credits	119.00-121.00

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

- Programming
- Network Technology
- Consulting
- Non-Technical
- Systems Development
- Internet
- Education