

# BUSINESS INFORMATICS BA/BS

This major provides students with both Business and Computer Science knowledge and skills. It will prepare graduates for careers that require skills with both business acumen and computer and technology expertise. Courses in this major will include systems analysis, application software development, web development, and database design. Graduates will also become familiar with all areas of business in order to better accommodate business operations in the areas of software and hardware systems. The intended learning outcomes of this program include understanding the concepts, theories, and practices in the functional areas of business, preparing professional oral and written forms of communication, evaluating and applying information technology in support of management decision making, and working effectively and professionally with diverse colleagues in team situations. Additionally, graduates will evaluate existing information systems, databases, and user interfaces and propose improvements.

## General Education

Code	Title	Credits
<b>Written Communication</b>		
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	
<b>Oral Communication</b>		
Select one from the following:		3.00
COMM-101	FUNDAMENTALS OF ORAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	
<b>Mathematical Ways of Knowing</b>		
Select one of the following:		3.00-5.00
MATH-123	MATH IN MODERN SOCIETY	
MATH-130	FINITE MATHEMATICS	
MATH-143	COLLEGE ALGEBRA	
MATH-147	COLLEGE ALGEBRA AND TRIGONOMETRY	
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	
<b>Humanistic &amp; Artistic Ways of Knowing</b>		
Select one course from two categories:		6.00-8.00
<b>Literature</b>		
ENGL-175	LITERATURE AND IDEAS	
ENGL-257	WORLD CLASSICS	
ENGL-258	INTERNATIONAL LITERATURE	
ENGL-261	MYTHOLOGIES	
<b>Arts</b>		
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	
<b>Language</b>		

NP-101	ELEMENTARY NEZ PERCE LANGUAGE I	
NP-102	ELEMENTARY NEZ PERCE LANGUAGE II	
SPAN-101	ELEMENTARY SPANISH I	
SPAN-102	ELEMENTARY SPANISH II	
<b>Scientific Ways of Knowing</b>		
CS-108	INTRODUCTION TO COMPUTER SCIENCE	4.00
Select one course from the following		3.00
BIOF-100	INTRODUCTION TO BIOINFORMATICS	
BIOL-100	CONCEPTS OF BIOLOGY	
BIOL-120	PLANTS AND PEOPLE	
BIOL-123	BIOLOGY IN FILM	
BIOL-175	HUMAN BIOLOGY	
BIOL-227	HUMAN ANATOMY AND PHYSIOLOGY I	
CHEM-100	CONCEPTS OF CHEMISTRY	
CHEM-105	GENERAL, ORGANIC AND BIOCHEMISTRY	
CHEM-111	PRINCIPLES OF CHEMISTRY I	
CITPT-108	INTRODUCTION TO COMPUTER SCIENCE	
FSCI-101	INTRODUCTION TO FORENSIC SCIENCE	
GEOL-101	PHYSICAL GEOLOGY	
GEOL-120	INTRODUCTION TO EARTH SYSTEMS	
GIS-271	GEOGRAPHIC INFORMATION SYSTEMS	
ID-240	INTEGRATED SCIENCE II	
NS-140	INTEGRATED SCIENCE I	
NS-150	INTRODUCTION TO NATURAL SCIENCES <sup>1</sup>	
NS-174	NATURAL SCIENCE FOR ELEMENTARY EDUCATOR	
PHYS-111	GENERAL PHYSICS I	
or PHYS-112	GENERAL PHYSICS II	
PHYS-171	PHYS SCIENCES FOR ELEMENTARY EDUCATORS	
PHYS-205	DESCRIPTIVE ASTRONOMY	
PHYS-211	PHYSICS FOR SCIENTISTS AND ENGINEERS I	
<b>Social &amp; Behavioral Ways of Knowing</b>		
Select one course from two disciplines:		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	
<b>Diversity</b>		
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	COMMUNICATION AND DIVERSITY	
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	
ID-300C	ETHICS AND IDENTITY	
KIN-220	SOCIAL-CULTURAL ASPECTS OF SPORTS	
NP-101	ELEMENTARY NEZ PERCE LANGUAGE I	
NP-102	ELEMENTARY NEZ PERCE LANGUAGE II	
POLS-285	COMPARATIVE GOVERNMENT	
SOC-101	INTRODUCTION TO SOCIOLOGY	
SPAN-101	ELEMENTARY SPANISH I	
SPAN-102	ELEMENTARY SPANISH II	
SPAN-201	INTERMEDIATE SPANISH I	
SPAN-202	INTERMEDIATE SPANISH II	
SS-184	DIVERSITY IN ORGANIZATIONS	
<b>Integrative Seminar: Ethics &amp; Values</b>		
Select one of the following:		3.00
ID 300A - 300Z (see course descriptions for options)		
ID-301A	HELLS CANYON INSTITUTE	
<b>Foreign/Heritage Language</b>		
Select 16 credits of language if selecting Bachelor of Arts Degree		16.00
<b>Total Credits</b>		<b>37.00-42.00</b>

## Program Requirements

Code	Title	Credits
Take all of the following:		
AC-231	PRINCIPLES OF ACCOUNTING I	3.00
AC-232	PRINCIPLES OF ACCOUNTING II	3.00
BUS-220	BUSINESS COMMUNICATIONS	3.00
BUS-221	INTRODUCTION TO COMPUTERS/INFO SYSTEMS	3.00
ECON-201 or ECON-202	PRINCIPLES OF MACROECONOMICS (Take both course, one as core) PRINCIPLES OF MICROECONOMICS	3.00
Select one of the following:		
ECON/PSYC/SS-300	STATISTICAL METHODS	3.00
Take all of the following:		
CITPT-111	WEB DEVELOPMENT BASICS	3.00
CS-111	FOUNDATIONS OF PROGRAMMING	4.00
CS-211	COMPUTER SCIENCE II	4.00
CS-226	SQL: STRUCTURED QUERY LANGUAGE	3.00
CS-253	INTRO TO SYSTEMS PROGRAMMING	4.00

## Upper Division Courses

BUS-101	INTRODUCTION TO BUSINESS	3.00
BUS-311	FOUNDATIONS OF MANAGEMENT THEORY	3.00
BUS-321	PRINCIPLES OF MARKETING	3.00
BUS-355	INFORMATION SYSTEMS FOR MANAGERS	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-445	DATABASES AND KNOWLEDGE MANAGEMENT	3.00
CS-480	CAPSTONE DESIGN PROJECT	4.00
Upper Division Computer Science Electives		
Elective Credits		13.00
CS-300/400		6.00
<b>Total Credits</b>		<b>84.00</b>

Students must earn at least a "C-" in MATH, ECON, and PSYC-101.

Students must earn at least a "C-" in all major courses. Students must also earn at least a 2.50 grade point average in all business courses combined, including Accounting and Economics.

## Sequential Plan of Study

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
CS-108	INTRODUCTION TO COMPUTER SCIENCE	4.00
ENGL-101	WRITING AND RHETORIC I	3.00
CORE	Humanistic & Artistic Ways of Knowing	3.00
CORE	Mathematical Ways of Knowing	3.00
CORE	Oral Communication	3.00
<b>Credits</b>		<b>16.00</b>
<b>Spring</b>		
CITPT-111	WEB DEVELOPMENT BASICS	3.00
ENGL-102	WRITING AND RHETORIC II	3.00
CORE	Scientific Ways of Knowing	3.00
CORE	Diversity	3.00
<b>Credits</b>		<b>12.00</b>
<b>Second Year</b>		
<b>Fall</b>		
AC-231	PRINCIPLES OF ACCOUNTING I	3.00
BUS-220	BUSINESS COMMUNICATIONS	3.00
CORE	Social & Behavioral Ways of Knowing	3.00
ECON-201	PRINCIPLES OF MACROECONOMICS	3.00
Elective	Elective Credits	3.00
<b>Credits</b>		<b>15.00</b>
<b>Spring</b>		
AC-232	PRINCIPLES OF ACCOUNTING II	3.00
BUS-221	INTRODUCTION TO COMPUTERS/INFO SYSTEMS	3.00
CORE	Humanistic & Artistic Ways of Knowing	3.00
ECON-202	PRINCIPLES OF MICROECONOMICS	3.00
Elective	Elective Credits	3.00
<b>Credits</b>		<b>15.00</b>

**Third Year****Fall**

BUS-301	FINANCIAL MANAGEMENT	3.00
BUS-311	FOUNDATIONS OF MANAGEMENT THEORY	3.00
BUS-321	PRINCIPLES OF MARKETING	3.00
ECON-300	STATISTICAL METHODS	3.00
Elective	Elective Credits	3.00
<b>Credits</b>		<b>15.00</b>

**Spring**

BUS-355	INFORMATION SYSTEMS FOR MANAGERS	3.00
BUS-365	BUSINESS LAW I	3.00
BUS-370	PRODUCTION AND OPERATIONS MANAGEMENT	3.00
Program Requirement	Select CS course 300/400 Level	3.00
CORE	Integrative Seminar: Ethics & Values	3.00
<b>Credits</b>		<b>15.00</b>

**Fourth Year****Fall**

CS-211	COMPUTER SCIENCE II	4.00
CS-226	SQL: STRUCTURED QUERY LANGUAGE	3.00
CS-253	INTRO TO SYSTEMS PROGRAMMING	4.00
CORE	Social & Behavioral Ways of Knowing	3.00
Elective	Elective Credits	2.00
<b>Credits</b>		<b>16.00</b>

**Spring**

CS-311	ALGORITHMS AND DATA STRUCTURES	4.00
CS-445	DATABASES AND KNOWLEDGE MANAGEMENT	3.00
CS-480	CAPSTONE DESIGN PROJECT	4.00
Program Requirement	Select CS course 300/400 Level	3.00
Elective	Elective Credits	2.00
<b>Credits</b>		<b>16.00</b>

<b>Total Credits</b>	<b>120.00</b>
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Graduates with a BA/BS in Business Informatics go on to obtain careers in a variety of fields:

- Administration
- Economics
- Entrepreneurship
- Financial Planning
- Global Industries
- Human Resource Management
- Management
- Marketing and Analytics
- Sales
- Statistics