

BS MAJOR IN INFORMATION TECHNOLOGY

Requirement for a Bachelor of Science in Information Technology Degree

Code	Title	Hours
General Education Component (https://catalog.una.edu/undergraduate/academic-procedures-requirements/general-education-component/)		
Area I. Written Composition		6
EN 111 & EN 112	First-Year Composition I and First Year Composition II	
Area II. Humanities and Fine Arts		12
COM 201	Fundamentals of Speech	
Select three semester hours from the following:		
AR 170	Art Appreciation	
AR 281	Art History Survey I	
AR 282	Art History Survey II	
CAT 133	Cinema Appreciation	
CAT 210	Theatre Appreciation	
EN 255	Creative Writing Appreciation	
MU 222	Music Appreciation	
MU 244	Survey of Music Literature	
Select three to six semester hours from the following:		
EN 211	Survey of British Literature	
EN 212	Survey of British Literature	
EN 221	American Literature through Whitman	
EN 222	American Literature from Whitman to the Present	
EN 231	Literature of the World I	
EN 232	Literature of the World II	
Select zero to three semester hours from the following:		
FL 100	Introduction to Language	
FR 101	Introductory French	
FR 102	Introductory French	
FR 201	Intermediate French	
FR 202	Intermediate French	
GR 101	Introductory German	
GR 102	Introductory German	
GR 201	Intermediate German	
GR 202	Intermediate German	
PHL 201	Introduction to Philosophy	
PHL 205	Ethics	
PHL 250	Business Ethics	
RE 111	World Religions	
RE 221	Old Testament Introduction	
RE 231	New Testament Introductions	
SP 101	Introductory Spanish	
SP 102	Introductory Spanish	
SP 201	Intermediate Spanish	
SP 202	Intermediate Spanish	
Area III. Natural Sciences and Mathematics		11

Select one from the following:

MA 112	College Algebra
MA 113	College Trigonometry
MA 115	Pre-Calculus Algebra and Trigonometry
MA 125	Calculus I

Select at least eight semester hours from the following:

BI 101	Introductory Biology
BI 102	Human Biology
BI 111	Principles of Biology
BI 112	Principles of Biology
CH 101 & 101L	Introductory Chemistry and Introductory Chemistry Laboratory
CH 102 & 102L	Introduction to Organic and Biochemistry and Introduction to Organic and Biochemistry Laboratory
CH 111 & 111L	General Chemistry and General Chemistry Laboratory
CH 112 & 112L	General Chemistry and General Chemistry Laboratory
ES 131	Earth Science/Physical Geology
ES 132	Historical Geology
or ES 133	Earth Science/Earth Systems
ES 146	Sustainable Earth
ES 251	Environmental Systems
GE 111	Physical Geography: Weather and Climate
GE 112	Physical Geography-Landforms
PH 101	Interactive Physics
PH 121	Introductory Physics
PH 125	Descriptive Astronomy
PH 241	General Physics I
PH 242	General Physics II
PH 251	Technical Physics I
PH 252	Technical Physics II

Area IV. History, Social and Behavioral Sciences 12

Select one from the following:

HI 101 & HI 102	Survey of World Civilization to 1500 and Survey of World Civilization since 1500
HI 201 & HI 202	United States History to 1877 and United States History since 1877

Select two from the following:

COM 205	Communication in a Global Age
EC 251	Principles of Macroeconomics
EC 252	Principles of Microeconomics
ECE 262	Child Development
ED 299	Human Growth and Development
FL 101	Introduction to Global Studies
FL 201	Global Perspectives through Study Abroad
FL 204	Introduction to Latin American Studies
GE 102	Global Environments and Societies
GE 260	People, Place, and Culture
HPE 175	Essentials of Healthy Living
HPE 213	Foundations of Health
PS 241	United States Government and Politics

PS 251	Global Politics and Society	
PY 201	General Psychology	
SO 221	Introductory Sociology	
SO 222	Current Social Problems	
SRM 200	Leisure in Contemporary Life	

Area V. Prescribed Supporting Courses:

EN 339W	Technical and Scientific Writing	
COM 330	Group Communication	
DA 291	Statistical Process Control	
or MA 147	Elementary Statistics	
DA 295	Quantitative Methods in Business and Economics	
or MA 125	Calculus I	

Choose one from the following: 3

COM 306	Interpersonal Communication	
COM 308	Nonverbal Communication	
COM 314	Communication Theory and the Public Interest	

Major Core Requirements:

CS 135	Computer Skills for Problem-Solving	3
CIS 225	Introduction to Object-Oriented Programming	3
ITE 249	Introduction to Information Security	3
CIS 289	Introduction to Human Computer Interaction/User Experience (HCI/UX)	3
CIS 315	Advanced Object-Oriented Programming	3
CIS 330	System Analysis and Design	3
CIS 344	IT Infrastructure	3
CIS 366	Database Development and Management	3
CIS 376	Web Development	3
CIS 444	Advanced IT Infrastructure	3
CIS 445	Advanced Database Management Systems	3
CIS 476	Software Architecture	3
CIS 486	Projects in Information Systems	3

Concentrations - Choose one of the following: 12**Software Development**

CS 155	Computer Science I	
CS 255	Computer Science II	
CS 355	Data Structures and Algorithms	
300/400 level CS course		

HCI/UX

AR 221	Drawing I	
or AR 231	Design I	
CIS 489	Capstone HCI/UX Project	
EN 445W	Multimodal Writing	
PY 385	Cognitive Psychology	

Cybersecurity

ITE 359	Digital Forensics	
ITE 369	Usable Privacy and Security	
ITE 379	Secure Software Development	
ITE 449	Infrastructure Security	

General Elective Hours, if required, to bring total to 120

Total Hours 120