

Computer and Information Sciences

Curriculum in Information Technology



First Year

First Semester

Course Number	Course Title	Credits
CSCI-191	University Seminar I	1
CSCI-110	Computational Thinking I	2
CSCI-120	Elements of Computer Programming I	4
ENGL-121	Introduction to Composition I (session I)	2
ENGL-122	Introduction to Composition II (session II)	2
MTSC-251	Calculus I	4
		15

Second Semester

Course Number	Course Title	Credits
CSCI-192	University Seminar II	1
CSCI-111	Computational Thinking II	2
CSCI-121	Elements of Computer Programming II	4
ENGL-123	Introduction to Composition and Speech III	3
ENGL-124	Introduction to Speech and Composition IV	2
KINE-101	Lifetime Fitness & Wellness	2
		14

Second Year

Course Number	Course Title	Credits
CSCI-210	Data Structures and Algorithms I	4
INFO-220	System Administration I	4
ENGR-210	Digital Logic Design	4
MTSC-213	Discrete Mathematics I	3
		15

Course Number	Course Title	Credits
CSCI-211	Data Structures and Algorithms II*	3
CSCI-230	Systems Architecture	3
INFO-230	Introduction to Web Development	3
INFO-240	Database Administration	3
INFO-295	Mid-Program Project	1
LIT	Literature (M/AE)	3
		16

Third Year

Course Number	Course Title	Credits
CSCI-320	Operating Systems	3
CSCI-340	Database Systems	3
CSCI-370	Stochastic Computing	3
INFO-380	Human Computer Interaction	3
PHYS-211	Fundamentals of Physics I	4
		16

Course Number	Course Title	Credits
CSCI-330	Computer Networking	3
CSCI-350	Data Analytics	3
INFO-320	System Administration II	3
INFO-340	Introduction to Information Security	3
AE	Area Elective	3
		15

Fourth Year

Course Number	Course Title	Credits
CSCI-480	Software Engineering Design	3
INFO-420	Systems Integration	3
AH	Arts and Humanities (M/AE)	3
PSYC-201	Introduction to Psychology	3
AE	Area Elective	3
		15

Course Number	Course Title	Credits
INFO-495	IT Capstone Project**	3
GLOB-395	Global Societies	3
HIS	History (M/AE)	3
AH	Arts and Humanities (M/AE)	3
AE	Area Elective	3
		15

Total Credit Hours	121
---------------------------	------------

** Senior capstone course.

NOTE: All courses must be passed with a C or better in order to fulfill the requirement.

Division of Physical and Computational Sciences Information Technology and General Education Requirements

2021 - 2022

General Education - Core		
CSCI-191	University Seminar I	1
CSCI-192	University Seminar II	1
ENGL-121	Introduction to Composition I	2
ENGL-122	Introduction to Composition II	2
ENGL-123	Introduction to Composition and Speech III	3
ENGL-124	Introduction to Speech and Composition IV	2
GLOB-395	Global Societies	3
KINE-101	Lifetime Fitness & Wellness	2
		16

General Education - Breadth		
HIS	History (HM/HA/E)	3
LIT	Literature (LM/LA/E)	3
SS	Social Sciences	3
AH	Arts and Humanities (M/A/E)	6
MTH	Mathematics	4
CAP	Capstone Experience	3
NSC	Natural Science with Lab	4
		26

Computing - Foundations		
CSCI-110	Computational Thinking I	2
CSCI-111	Computational Thinking II	2
CSCI-120	Elements of Computer Programming I	4
CSCI-121	Elements of Computer Programming II	4
CSCI-210	Data Structures and Algorithms I	4
CSCI-211	Data Structures and Algorithms II	3
		19

Computing - Core		
CSCI-230	System Architecture	3
CSCI-320	Operating Systems	3
CSCI-330	Computer Networking	3
CSCI-340	Database Systems	3
CSCI-350	Data Analytics	3
CSCI-370	Stochastic Computing	3
CSCI-480	Software Engineering	3
INFO-340	Introduction to Information Security	3
		24

Computing - Cognate		
MTSC-213	Discrete Math I	3
ENGR-210	Digital Logic Design	4
MTSC-251	Calculus I	3
		7

IT - Specific		
INFO-220	System Administration I	4
INFO-230	Introduction to Web Development	3
INFO-240	Database Administration	3
INFO-295	Mid-Program Project	1
INFO-320	System Administration II	3
INFO-380	Human Computer Interaction	3
INFO-420	Systems Integration	3
INFO-495	IT Capstone Project	3
AE	Area Elective	3
AE	Area Elective	3
AE	Area Elective	3
		29

Total	107
--------------	------------

History (choose one)	
H/M	History / Multicultural
	HIST-101 World History to 16th Century
	HIST-102 World History from 16th Century
	HIST-205 Themes in World History
H/AE	History / African-American Experience
	HIST-203 African American History to 1865
	HIST-204 African American History from 1865

Literature (choose one)	
L/M	Literature / Multicultural
	ENGL-201 World Literature I
	ENGL-202 World Literature II
L/AE	Literature / African-American Experience
	ENGL-205 African-American Literature I
	ENGL-206 African-American Literature II

Social Sciences (choose one)	
	PSYC-201 Introduction to Psychology

Arts and Humanities (choose two)	
AH	Arts and Humanities
	ART-101 Introduction to Art
	ART-103 Introduction to Drawing
	ART-104 Two Dimensional Design
	ART-204 Drawing & Painting (Non-majors)
	ART-205 Intermediate Drawing
	ART-206 Three-Dimensional Design
	ART-304 Introduction to Painting
	ART-315 Modern Art
	ART-317 Art History I
	ENGL-113 Introduction to Theatre
	MUSC-101 Introduction to Music
	PHIL-XXX All Philosophy Courses without prerequisites
	WMGS-230 Introduction to Feminist Philosophy
	WMGS-420 Women and Men of Classical Letters
AH/M	Arts and Humanities / Multicultural
	PHIL-201 Introduction to Philosophy
	XX-XXX All World Languages
	SCCI-101 Introduction to Sociology
	SCCI-206 Cultural Anthropology
	MGMT-440 International Management
	WMGS-310 Introduction Gender Representation in Visual Culture
AH/AE	Arts and Humanities / African-American Experience
	MUSC-100 African-American Music
	ART-316 African-American Art History

Mathematics (choose one)	
	MTSC-251 Calculus I

Capstone Experience	
	INFO-495 IT Capstone Project

Natural Sciences with Lab (choose one)	
	PHYS-211 Fundamentals of Physics

Area: Security	
INFO-440	Information Systems Security
CSCI-440	Computer and Network Security
AE	Course from another IT/CS Area

Area: Web and Mobile Development	
INFO-330	Data-Driven Web Applications
INFO-331	Technologies for Developing Web Systems
INFO-335	Mobile Computing

General Education Breadth Paths

Student must complete one of these paths

