DAVENPORT UNIVERSITY

COMPUTER SCIENCE (BS)

COMPUTER THEORY AND ALGORITHMS SPECIALTY
2023-2024 RECOMMENDED PROGRAM SEQUENCE (Full-time)
120 CREDITS

COMP SCIE BS (CTAS)

FRESHMAN YEAR

Fall Semester		**(15 credits)**	**Winter Semester**		**(16 credits)**
ACES100	Achieving Career and Education Success	3	CISP247	Database Design	3
CISP111	Requirements Planning and Development	3	CSCI234	Object-Oriented Programming with C#	3
CSCI231	Introduction to Programming	3	ENGL110	Advanced Composition	3
ENGL109	Composition	3	IAAS221	Security Foundations	3
MATH120	College Mathematics	3	MATH150	Pre-Calculus	4

SOPHOMORE YEAR

Fall Semester		**(16 credits)**	**Winter Semester**		**(15 credits)**
CSCI260	Software Engineering	3	COMM120	Presentation Techniques	3
CSCI312	Data Structures and Algorithms	3	CSCI222	Biometrics Fundamentals	3
MATH215	Calculus I	4	CSCI258	Introduction to Game Design	3
MATH250	Discrete Structure	3	CSCI280	Artificial Intelligence	3
NETW220	Data Communications and Networks	3	SOSC201	Diversity in Society	3

JUNIOR YEAR

Fall Semester		**(16 credits)**	**Winter Semester**		**(16 credits)**
BUSN210	Professional Ethics	3	CSCI268	Assembly Language and Comp. Architecture	3
CSCI420	Parallel and Distributed Systems	3	CSCI440	Introduction to Modeling Simulation	3
ENGL311	Professional Writing	3	CSCI445	Design and Analysis of Algorithms	3
MATH205	Linear Algebra	4	MATH350	Differential Equations with Modeling	4
SOSC301	Globalization and World Diversity	3	PHYS100	Applied Physics	2
			PHYS100L	Applied Physics Lab	1

SENIOR YEAR

Fall Semester		**(13 credits)**	**Winter Semester**		**(13 credits)**
CSCI325	Deep Learning	3	CSCI430	Operating Systems	3
CSCI380	Computer Vision	3	CSCI436	Concepts of Programming Languages	3
CSCI490 or TECH489	Computer Science Internship or Field Experience in Technology	3	CSCI472	Automata Theory and Compiler Design	3
PHYS210	Fundamentals of Physics I	3	CSCI497	Computer Science Capstone	3
PHYS210L	Fundamentals of Physics I Lab	1		Open Elective	1

This information is subject to change and cannot be considered an agreement or contract between individual students and Davenport University. Refer to the current University catalog to confirm degree requirements.

Last Updated: 12/19/2022

Finalized: gz