



2023-2024 Catalog

Computer Science

Bachelor of Science

**Program**

Computer Science

**Total Credits 68**

Computer Science			
Item #	Course Title		Credits
<input type="checkbox"/> COMSC 1450	Introduction to Programming and Computer Science		4
<input type="checkbox"/> COMSC 1451	Object Oriented Programming	COMSC 1451 Prerequisite: COMSC 1450	4
<input type="checkbox"/> COMSC 2351	Data Structures	COMSC 2351 Prerequisite: COMSC 1451	3
<input type="checkbox"/> COMSC 3365	Organization of Computer Programming Languages	COMSC 3365 Prerequisites: COMSC 1451	3
<input type="checkbox"/> COMSC 3375	Database Systems	COMSC 3375 Prerequisites: COMSC 1451	3
<input type="checkbox"/> COMSC 3385	Computer Architecture	COMSC 3385 Prerequisites: COMSC 1451	3
<input type="checkbox"/> COMSC 4101	Computer Science Seminar		1
<input type="checkbox"/> COMSC 4320	Operating Systems	COMSC 4320 Prerequisites: COMSC 3385	3
<input type="checkbox"/> COMSC 4340	Computer Networks	COMSC 4340 Prerequisite: COMSC 1451	3
<input type="checkbox"/> COMSC 4345	Foundations of Data Science	COMSC 4345 Prerequisites: COMSC 3375	3
<input type="checkbox"/> COMSC 4350	System Development Project	COMSC 4350 Prerequisites: Senior Standing	3

Computer Science Electives			
Complete six hours of the following courses:			
Item #	Course Title		Credits
<input type="checkbox"/> COMSC 3371	Introduction to Data Analytics	COMSC 3371 Prerequisite MATH 2435, or MATH 3332, or MATH 3450, or PSYC 3433	3
<input type="checkbox"/> COMSC 3372	Data Visualization	COMSC 3372 Prerequisite MATH 2435, or MATH 3332, or MATH 3450, or PSYC 3433	3

<input type="checkbox"/>	GCSE 4301	Governing the Digital Ecosystem - Technology and Geopolitics	GCSE 4301 Prerequisites: GCSE 3301/3101, 3302/3102	3
<input type="checkbox"/>	GCSE 4379	Cyber Warfare		3
<input type="checkbox"/>	COMSC 4393	Special Projects with Department Chair Approval		3

## Mathematics

Item #	Course Title		Credits	
<input type="checkbox"/>	MATH 1431	Calculus I	MATH 1431 Prerequisite: MATH 1430 or department consent.	4
<input type="checkbox"/>	MATH 1432	Calculus II	MATH 1432 Prerequisite: Grade of 'C' or Better in MATH 1431	4
<input type="checkbox"/>	MATH 2431	Calculus III	MATH 2431 Prerequisite: MATH 1432 with a grade of "C" or better	4
<input type="checkbox"/>	MATH 3334	Linear Algebra I	MATH 3334 Prerequisite: MATH 1432	3
<input type="checkbox"/>	MATH 3335	A First Course in Probability	MATH 3335 Prerequisite: MATH 1432	3
<input type="checkbox"/>	MATH 3360	Discrete Mathematics	MATH 3360 Prerequisite: MATH 1431	3
<input type="checkbox"/>	MATH 3450	Biostatistics I		4

## Lab Science Course Requirement

Complete at least one lecture/lab in an approved science area (BIOL, CHEM, PHYS).