

# COMPUTER SCIENCE

2024-2025

GENERAL EDUCATION CORE	REQ	COMP	NEED
<b>Written Communication</b>			
ENGL 101 & 102	6		
ENGL 109			
<b>Oral Communication - Choose 1</b>			
COMM 101, 203, 204	3		
<b>Mathematical Ways of Knowing - Choose 1</b>			
MATH 143, MATH 147, MATH 170	3-5		
<b>Humanistic &amp; Artistic Ways of Knowing - Choose 2 from 2 categories</b>			
ENGL 175, ENGL 257, ENGL 258, ENGL 261 OR	6-7		
NP 101, NP 102, SPAN 101, SPAN 102 OR			
ART 100, HUM 101,150, MUS 101,102,150,151,152,THEA 101			
<b>Scientific Ways of Knowing -</b>			
CS 108 Introduction to Computer Science	3		
<b>Select one of the Following</b>			
BIOF 100	7-8		
BIOL 100, 120, 123, 175, 227			
CHEM 100, 105, 111			
FSCI 101 or GIS 271			
GEOL 101, GEOL 120			
NS 140, NS 150, NS 174, ID 240			
PHYS 111 or 112, 171, 205, 211			
<b>Social &amp; Behavioral Ways of Knowing Choose 2 from 2 categories</b>			
ANTH 102, 120, 170	6		
ECON 201 or 202			
GEOG 102			
HIST 101,102,111,112			
HRPT 184, 185			
POLS 101, 237, 285			
PSCY 101, 205			
SOC 101,102			
SS, 184, 185			
<b>Diversity - Choose 1</b>			
ANTH 102, 120, 170, 360	3		
COMM 345, ENGL 258, ENGL 474, GEOG 102			
HIST 101, 102, 111, 112			
HRPT 184 or SS 184 or KIN 220			
NP 101, 102			
POLS 285 or SOC 101			
SPAN 101, 102, 201, 202			
<b>Integrative Seminar: Ethics &amp; Values</b>			
ID 300A-300Z (see course descriptions/options in catalog)	3		
ID 301A			
<b>TOTAL</b>	37-43		
<b>FOREIGN/HERITAGE LANGUAGE</b>			
101	Take 16 credits of language if selecting Bachelor of Arts degree. May also count as Diversity.		
102			
201			
202			
<b>TOTAL</b>	16		

MAJOR COURSES		REQ	COMP	NEED
CS 101	Computer Science Seminar	1		
CS 111	Foundations of Programming	4		
CS 211	Computer Science II	4		
CS 226	SQL: Structured Query Language	3		
CS 250	Computer Org. & Architecture	4		
CS 253	Intro to Systems Programming	4		
CS 311	Algorithms & Data Structures	4		
CS 360	Software Engineering	3		
CS 401	Future Professionals Seminar	1		
CS 430	Operating Systems	3		
CS 435	Computer Networks	3		
CS 480	Capstone Design Project	4		
MATH 170	Calculus I (Req. if not used in core)			
MATH 186	Discrete Mathematics	3		
<b>Total</b>		<b>41</b>		
<b>Select 7 credits of Bioinformatics or Computer Science</b>				
300/400	BIO/CS Elective	3-4		
300/400	BIO/CS Elective	3-4		
<b>Total</b>		<b>7</b>		
<b>Upper Division Electives Select 26 credits</b>				
BIOF 100	Introduction to Bioinformatics	3		
BIOL 181	Ecology, Evolution, Diversity of Life	4		
BIOL 182	Concepts in Cellular Mechanisms	4		
CITPT 111	Web Development Basics	3		
MATH 175	Calculus II	4		
MATH 253	Statistical Methods for the Sciences	3		
MATH 275	Calculus III	4		
PHYS 211	Engineering Physics I	5		
PHYS 212	Engineering Physics II	5		
<b>Total</b>		<b>26</b>		
<b>GENERAL ELECTIVES</b>				
<b>TOTAL</b>		<b>7</b>		
<b>SUMMARY</b>				
GENERAL EDUCATION		37		
MAJOR		74		
GENERAL ELECTIVES		7		
<b>TOTAL</b>		<b>120</b>		

This Program complies with all requirements for a Minor in Mathematics

**MOVE UP**  
*with a business degree*