

B.S. in Computer Science (Comprehensive Major)
 Four Year Curriculum Guide (Even Years)
 Department of Mathematics and Computer Science

Year 1 Fall Semester			Year 1 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 101	Logic and Computing	3	CS 121	Computer Programming I (spring only)	3
MATH 223	Discrete Mathematics I (fall only) (Core 1)	3	MATH 224	Discrete Mathematics II (spring only)	3
ENG 101	Composition I (Core 2)	3	ENG 102	Composition II (Core 5)	3
CORE	Institutional Requirement (Core 3)	3	CORE	Institutional Requirement (Core 6)	3
CORE	Institutional Requirement (Core 4)	3	CORE	Institutional Requirement (Core 7)	3
	TOTAL	15		TOTAL	15

Year 2 Fall Semester			Year 2 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 122	Computer Programming II (fall only)	3	CS 215	Intro to AI (spring even)	3
CS 210	Soc, Eth, Prof Issues in Comp (fall odd)	3	CS 230	Data Structures (spring only)	3
MIS 372	Systems Analysis and Design (fall odd)	3	MATH 307	Linear Algebra (spring only)	3
CORE	Institutional Requirement (Core 8)	3	CORE	Institutional Requirement (Core 10)	3
CORE	Institutional Requirement (Core 9)	3	CORE	Institutional Requirement (Core 11)	3
	TOTAL	15		TOTAL	15

Year 3 Fall Semester			Year 3 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 301	Computer Architecture (fall even)	3	CS 303	Computer Algorithms (spring odd)	3
CS	CS Elective (1)	3	CS 421	Principles of Operating Systems (spring odd)	3
GENERAL	General Elective (1)		CS	CS Elective (2)	3
CORE	Institutional Requirement (Core 12)	3	CORE	Institutional Requirement (Core 14)	3
CORE	Institutional Requirement (Core 13)	3	GENERAL	General Elective (2)	3
	TOTAL	15		TOTAL	15

Year 4 Fall Semester			Year 4 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
MIS 470	Database Management (fall only)	3	CS 321	Advanced Programming (spring even)	3
CS	CS Elective (3)	3	CS 499	Software Development (spring even)	3
CORE	Institutional Requirement (Core 15)	3	CS	CS Elective (4)	3
GENERAL	General Elective (3)	3	GENERAL	General Elective (5)	2
GENERAL	General Elective (4)	3	GENERAL	General Elective (6)	3
	TOTAL	15		TOTAL	15

120 hours

Revised: December 2024

B.S. in Computer Science (Comprehensive Major)
 Four Year Curriculum Guide (Odd Years)
 Department of Mathematics and Computer Science

Year 1			Year 1		
Fall Semester			Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 101	Logic and Computing	3	CS 121	Computer Programming I (spring only)	3
MATH 223	Discrete Mathematics I (fall only) (Core 1)	3	MATH 224	Discrete Mathematics II (spring only)	3
ENG 101	Composition I (Core 2)	3	ENG 102	Composition II (Core 5)	3
CORE	Institutional Requirement (Core 3)	3	CORE	Institutional Requirement (Core 6)	3
CORE	Institutional Requirement (Core 4)	3	CORE	Institutional Requirement (Core 7)	3
	TOTAL	15		TOTAL	15

Year 2			Year 2		
Fall Semester			Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 122	Computer Programming II (fall only)	3	CS 230	Data Structures (spring only)	3
MIS 470	Database Management (fall only)	3	MATH 307	Linear Algebra (spring only)	3
CS	CS Elective (1)	3	CS	CS Elective (2)	3
CORE	Institutional Requirement (Core 8)	3	CORE	Institutional Requirement (Core 10)	3
CORE	Institutional Requirement (Core 9)	3	CORE	Institutional Requirement (Core 11)	3
	TOTAL	15		TOTAL	15

Year 3			Year 3		
Fall Semester			Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
MIS 372	Systems Analysis and Design (fall odd)	3	CS 215	Intro to AI (spring even)	3
CS 210	Soc, Eth, Prof Issues in Comp (fall odd)	3	CS 321	Advanced Programming (spring even)	3
CS	CS Elective (3)	3	CS 499	Software Development (spring even)	3
CORE	Institutional Requirement (Core 12)	3	CORE	Institutional Requirement (Core 13)	3
GENERAL	General Elective (1)	3	GENERAL	General Elective (2)	3
	TOTAL	15		TOTAL	15

Year 4			Year 4		
Fall Semester			Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 301	Computer Architecture (fall even)	3	CS 303	Computer Algorithms (spring odd)	3
CORE	Institutional Requirement (Core 14)	3	CS 421	Principles of Operating Systems (spring odd)	3
CS	CS Elective (4)	3	CORE	Institutional Requirement (Core 15)	3
GENERAL	General Elective (3)	3	GENERAL	General Elective (5)	3
GENERAL	General Elective (4)	3	GENERAL	General Elective (6)	3
	TOTAL	15		TOTAL	15

120 hours

Revised: June 2025