

B.S. in Computer Science (Comprehensive Major)  
 Four Year Curriculum Guide (Odd 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	MATH 250	Mathematical Proof (spring only)	1
CORE	Institutional Requirement (Core 3)	3	ENG 102	Composition II (Core 5)	3
CORE	Institutional Requirement (Core 4)	3	CORE	Institutional Requirement (Core 6)	3
			CORE	Institutional Requirement (Core 7)	3
	<b>TOTAL</b>	15		<b>TOTAL</b>	16

Year 2 Fall Semester			Year 2 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 122	Computer Programming II (fall only)	3	CS 230	Data Structures (spring only)	3
CS	CS Elective (1)	3	CS 301	Computer Architecture (spring odd)	3
CS	CS Elective (2)	3	SCIENCE	Science Elective (1)	3
CORE	Institutional Requirement (Core 8)	3	GENERAL	General Elective (1)	3
CORE	Institutional Requirement (Core 9)	3	CORE	Institutional Requirement (Core 10)	3
	<b>TOTAL</b>	15		<b>TOTAL</b>	15

Year 3 Fall Semester			Year 3 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 302	Theory of Computation (fall odd)	3	CS 303	Computer Algorithms (spring even)	3
CS 421	Principles of Operating Systems (fall odd)	3	CS 499	Software Development (spring even)	3
MIS 372	Systems Analysis and Design (fall odd)	3	MATH 307	Linear Algebra (spring only)	3
CORE	Institutional Requirement (Core 11)	3	CORE	Institutional Requirement (Core 13)	3
CORE	Institutional Requirement (Core 12)	3	GENERAL	General Elective (2)	3
	<b>TOTAL</b>	15		<b>TOTAL</b>	15

Year 4 Fall Semester			Year 4 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 321	Advanced Programming (fall even)	3	CS	CS Elective (3)	3
MIS 470	Database Management (fall only)	3	CORE	Institutional Requirement (Core 14)	3
GENERAL	General Elective (3)	3	CORE	Institutional Requirement (Core 15)	3
GENERAL	General Elective (4)	3	SCIENCE	Science Elective (2)	3
GENERAL	General Elective (5)	3	GENERAL	General Elective (6)	2
	<b>TOTAL</b>	15		<b>TOTAL</b>	14

120 hours

Revised: August 2024

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	MATH 250	Mathematical Proof (spring only)	1
CORE	Institutional Requirement (Core 3)	3	ENG 102	Composition II (Core 5)	3
CORE	Institutional Requirement (Core 4)	3	CORE	Institutional Requirement (Core 6)	3
			CORE	Institutional Requirement (Core 7)	3
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>16</b>

Year 2 Fall Semester			Year 2 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 122	Computer Programming II (fall only)	3	CS 230	Data Structures (spring only)	3
CS	CS Elective (1)	3	CS	CS Elective (2)	3
GENERAL	General Elective (1)	3	SCIENCE	Science Elective (1)	3
CORE	Institutional Requirement (Core 8)	3	GENERAL	General Elective (2)	3
CORE	Institutional Requirement (Core 9)	3	CORE	Institutional Requirement (Core 10)	3
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>

Year 3 Fall Semester			Year 3 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 321	Advanced Programming (fall even)	3	CS 301	Computer Architecture (spring odd)	3
MIS 470	Database Management (fall only)	3	MATH 307	Linear Algebra (spring only)	3
CS	CS Elective (3)	3	CORE	Institutional Requirement (Core 13)	3
CORE	Institutional Requirement (Core 11)	3	CORE	Institutional Requirement (Core 14)	3
CORE	Institutional Requirement (Core 12)	3	GENERAL	General Elective (3)	3
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>

Year 4 Fall Semester			Year 4 Spring Semester		
Course #	Title	Cr.	Course #	Title	Cr.
CS 302	Theory of Computation (fall odd)	3	CS 499	Software Development (spring even)	3
CS 421	Principles of Operating Systems (fall odd)	3	CS 303	Computer Algorithms (spring even)	3
MIS 372	Systems Analysis and Design (fall odd)	3	SCIENCE	Science Elective (2)	3
GENERAL	General Elective (4)	3	GENERAL	General Elective (5)	2
CORE	Institutional Requirement (Core 15)	3	GENERAL	General Elective (6)	3
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>14</b>

**120 hours**

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