MARYVILLE UNIVERSITY

COMPUTER SCIENCE

Minimum of **120** credit hours required for a Bachelor of Science degree.
Last **30** credit hours must be from Maryville University

NAME: _____ **REVIEWER:** _____ **DATE:** _____

I. MCORE (36 Hours)	Credits	SEM/YR	Grade	Notes
A. Social Discovery (6)				
CORE 101: Discovering Community	3			
Student Choice	3			
CORE 401: Senior Capstone				In Major: COSC 498
B. Civic Discovery (6)				
CORE 201: Discovering the Nation	3			
Student Choice	3			
C. Cultural Discovery (6)				
CORE 301: Discovering the World	3			
Student Choice	3			
D. Creative Discovery (9)				
COMP 104: Writing Across the Disciplines II	3			
Student Choice	3			
Student Choice	3			
F. Scientific Discovery (9)				
CORE 102: Everyday Data	3			
Student Choice	3			
Student Choice	3			
II. Major Requirements (84 Credit Hours)	**Credits**	**SEM/YR**	**Grade**	**Notes**
A. Other				
COMP 101 Writing Across the Disciplines I	3			
MATH 117 OR MATH 125 OR MATH 151	3			
MATH 311 Discrete Mathematics	3			
Electives	15			
B. Computer Science Core				
COSC 130 Introduction to Programming	3			
COSC 150 Introduction to Java Programming	3			
COSC 151 Computer Science I	3			
COSC 220 Database Applications	3			
COSC 231 Project Management	3			
COSC 350 Data Structures and Algorithms	3			
COSC 360 Operation Systems	3			
COSC 498 Capstone Projects	3			Capstone
C. Program Electives				
Complete from Elective Tracks (18 hours must be selected from a single track)	36			
Degree Total	**120**			

SAMPLE COURSE PLAN

This is an example of the sequence of course work to complete this major.

Fall of Freshman Year	Credits	Spring of Freshman Year	Credits
CORE 101: Discovering Community	3	CORE 201: Discovering the Nation	3
CORE 102: Everyday Data	3	COMP 104: Writing Across the Disciplines II	3
COMP 101 Writing Across the Disciplines I	3	COSC 150 Intro to Java Programming	3
COSC 130 Intro to Programming	3	COSC 151 Computer Science I	3
MATH 117 College Algebra	3	MCORE – Student Choice	3
Total	**15**	**Total**	**15**
Fall of Sophomore Year	**Credits**	**Spring of Sophomore Year**	**Credits**
CORE 301: Discovering the World	3	COSC 231 Project Management	3
COSC 220 Database Design	3	MATH 311 Discrete Mathematics	3
COSC Program Elective	3	COSC Program Elective	3
COSC Program Elective	3	Elective	3
MCORE – Student Choice	3	MCORE – Student Choice	3
Total	**15**	**Total**	**15**
Fall of Junior Year	**Credits**	**Spring of Junior Year**	**Credits**
COSC 350: Data Structures and Algorithms	3	COSC 360: Operating Systems	3
COSC Program Elective	3	COSC Program Elective	3
COSC Program Elective	3	COSC Program Elective	3
MCORE – Student Choice	3	MCORE – Student Choice	3
Elective	3	Elective	3
Total	**15**	**Total**	**15**
Fall of Senior Year	**Credits**	**Spring of Senior Year**	**Credits**
COSC Program Elective	3	CORE 401 / COSC 498: Capstone Project	3
COSC Program Elective	3	COSC Program Elective	3
COSC Program Elective	3	COSC Program Elective	3
MCORE – Student Choice	3	MCORE – Student Choice	3
Elective	3	Elective	3
Total	**15**	**Total**	**15**

Notes:

- Students enrolled in B.S. in Computer Science program must completed 36 hours of program electives. 18 hours of program electives must be selected from a single track. The available tracks are Artificial Intelligence, Cybersecurity, Data Science, Game Development, Software Development, and User Experience.
- Students who qualify for Early Access programs are encouraged to consider enrolling in Early Access M.S. in Artificial Intelligence, Data Science, Data Analytics, Software Development, or Cybersecurity.
- Students who obtain internship positions might be eligible to earn internship credit by enrolling COSC 499.

Revised: July 7, 2025