



Department of Computer Science and
Information Technology College of Science, Technology,
Engineering, and Math (2024-25)

Suggested Curriculum Guide for BS Computer Science, General Concentration

Freshman (1st Semester) 16 hrs

GSD 101 Foundations of Learning
CSC 185- Intro to Computer Concepts
CSC 190- Object- Oriented Programming I
^G *MAT 234 (*fulfills Gen. Ed. 2*)- Calculus I
Gen. Ed. 1A (*ENG 101*)

3	CSC 191- Object-Oriented Programming II	3
3	CSC 195- Intro to Discrete Structures	3
3	MAT 244- Calculus II	4
4	Gen. Ed. 1B (<i>ENG 102</i>)	3
3	Gen. Ed. 3A (<i>Arts</i>)	3

Sophomore (1st Semester) 15-16 hrs

CSC 310- Data Structures
CSC 311- Algorithms I
MAT 239- Linear Algebra & Matrices
CSC 313- Database Systems
[†] ^G Physical Science restricted elective (*fulfills Gen. Ed. 4*)

3	CSC 320- Introduction to Algorithms I	3
3	CSC 340- Ethics & Software Engineering	3
3	EET 252- Digital Electronics	3
3	Gen. Ed. 1C (<i>Oral Comm.</i>)	3
3-4	Free Elective	3

Junior (1st Semester) 17-18 hrs

CSC 440- Applied Software Engineering
CSC 308- Mobile App Dev for iOS
STA 270- Applied Statistics
[§] ^G Physical Science restricted elective (*fulfills Gen. Ed. 4*)
CSC 338- Fundamentals of Cybersecurity

3	CSC 360- Computer Org and Architecture	3
3	[‡] CSC (<i>restricted</i>) Elective	3
4	Gen. Ed. 5A (<i>History</i>)	3
4-5	Gen. Ed. 5B (<i>Soc. & Behav. Sci.</i>) Course 1	3
3	Free Elective	3
	Free Elective	0-2

Senior (1st Semester) 16 hrs

CSC 400- Operating Systems
CSC 494, 495, or 496- Innovative Prob Solving, Ind Work, or Senior Seminar
CSC 541- Software Testing
Gen. Ed. 3B Course 1
Gen. Ed. 5B Course 2
Free Elective (*upper division*)

Senior (2nd Semester) 13 hrs

3	CSC 460- Computer Network & System Administration	3
1	CSC 499- Computer Science Career Preparation	1
3	CSC 545- Theory of Database Systems	3
3	Gen. Ed. 3B Course 2	3
	Free Elective (<i>upper division</i>)	3

^G Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

UNIVERSITY GRADUATION REQUIREMENTS

Total hours University Graduation Requirements **39 hours**

MAJOR REQUIREMENTS

Core Courses

CSC 185, CSC 190, CSC 191, CSC 195, CSC 308, CSC 310, CSC 313, CSC 338, CSC 340, CSC 499 **28 hours**

Concentration Requirements

CSC 311, CSC 320, CSC 360, CSC 400, CSC 440, CSC 460, CSC 541, CSC 545 **25 hours**

PLUS ONE (1) HOUR selected from:

CSC 494, CSC 495, CSC 496

Supporting Course Requirements

EET 252, ^G * MAT 234, *MAT 239, *MAT 244, *STA 270 **16-18 hours**

Choose TWO courses with different prefixes from the following (physical science restricted elective):

^G BIO 111/111L, ^G BIO 112/112L, ^G CHE 111 and CHE 111L, ^G GLY 108, ^G GLY 109, ^G PHY 201

Free Electives

10-12 hours

Total Curriculum Requirements

120 hours