Suggested Schedule for Computer Science Major

See Assumption's Catalog for additional information, e.g. Core Curriculum requirements.

First Year: Fall 20____	Spring 20____
1. CSC 117 Intro to Programming (Fall)	1. CSC 250 Intermediate Programming (Spring)
2. MAT 131H Honors Calculus I (Fall) or MAT 117 Calculus (any semester), or follow your math placement	2. MAT 132H Honors Calculus II (Spring) or MAT 118 Calculus II (any semester) (Finish Calculus I and II as soon as possible)
3.	3.
4.	4.
5.	5.

Second Year: Fall 20____	Spring 20____
1. CSC 305 Data Structures (Fall)	1. CSC 260 Command Line Interfaces (Spring)
2. MAT 202 Discrete Structures (Fall)	2
3. CSC 231 Computer Architect (Fall even) (Move to 3rd year if odd year)	3.
4.	4.
5.	5.

Third Year: Fall 20____	Spring 20____
1. CSC/CYB 230 Networking and Data Communications (Fall)	1. CSC 321 Database Management Systems (Spring)
2. CSC Major Elective #1/5 *	2. CSC Major Elective #2/5 *
3.	3.
4.	4.
5.	5.

Fourth Year: Fall 20____	Spring 20____
1. CSC Major Elective #3/5 *	1. CSC Major Elective #5/5 *
2. CSC Major Elective #4/5 *	2.
3.	3.
4.	4.
5.	5.

* = electives may be taken any semester

Checklist for Computer Science Major

We recommend to students interested in the computer science major: take CSC 117 in their first semester, because it is part of the major required sequence CSC 117, 250, 305.
In addition to the 15 courses taken to satisfy the requirements listed above for the major, CSC majors are encouraged to take MAT 203 Linear Algebra and MAT 208 Probability Theory.

Required Courses (10)

Requirement	Course	Fall	Spring	Prerequisite	Semester Planned	Completed
Intro. to Programming	CSC 117	x				
Intermediate Programming	CSC 250		x	CSC 117		
Data Structures	CSC 305	x		CSC 250		
Command Line Interfaces	CSC 260		x	CSC 117		
Calculus I	MAT 131H or	x		MAT 114 or placement		
	MAT 117	x	x	MAT 114 or placement		
Calculus II	MAT 132H or		x	MAT 131H/117		
	MAT 118	x	x	MAT 131H/117		
Discrete Structures	MAT 202	x		MAT 118/132H (completed or concurrent)		
Networking/Data Communications	CSC/CYB 230	x		CYB 115 or CSC 117 or CSC 120		
Computer Architecture/ Programming in Assembly	CSC 231	Even		CSC 117		
Database Management	CSC 321		x	CSC 117		

Electives (5)

Requirement	Course	Fall	Spring	Prerequisite	Semester Planned	Completed
Take a minimum of 5 of:						
Large Data Sets	CSC 233		x	CSC 120		
Securing Wired and Wireless Networks	CSC/CYB 235		x	CYB 115 and CSC/CYB 230		
Simulation	CSC 261		Even	CSC 117		
Systems Analysis and Design	CSC 301	Odd		CSC 117		
Operating Systems	CSC 303		Odd	CSC 117		
Java Programming	CSC 317		Odd	CSC 305		
Operations Research	CSC 327	Even		CSC 305, or corequisite		
Machine Learning	CSC 333	x		CSC 233		
Numerical Analysis	MAT 356		Even	MAT 118/132H		
Intro to Engineering	PHY 213		x	MAT 118/132H, or coreq.		