

Computer Science Sample Schedule

	Total Credit Hours	Term:							
		1	2	3	4	5	6	7	8
Subjects Required by all Programs (55 hours)									
Mathematics 115, 116, and 214 ³	12	4	4	-	4	-	-	-	-
Mathematics 215 or 216 ⁴	4	-	-	-	-	4	-	-	-
Engineering 100, Introduction to Engineering	4	-	4	-	-	-	-	-	-
Engineering 101, Introduction to Computers	4	4	-	-	-	-	-	-	-
Chemistry 125/126 and 130 or Chemistry 210 and 211 ¹	5	5	-	-	-	-	-	-	-
Physics 140 with Lab 141; Physics 240 with Lab 241 ²	10	-	5	5	-	-	-	-	-
Intellectual Breadth	16	4	4	-	4	4	-	-	-
Program Subjects (24 hours)									
EECS 203 Discrete Mathematics ⁵	4	-	-	4	-	-	-	-	-
EECS 280, Programming and Elementary Data Structures	4	-	-	4	-	-	-	-	-
EECS 281, Data Structures and Algorithms	4	-	-	-	4	-	-	-	-
EECS 370, Introduction to Computer Architecture	4	-	-	-	-	4	-	-	-
STATS 250 or STATS 412 or STATS 426 or EECS 301/401 or IOE 265 ⁶	3	-	-	-	-	-	3	-	-
EECS 376, Foundations of Computer Science	4	-	-	-	-	-	4	-	-
TCHNCLCM 300	1	-	-	-	-	-	1	-	-
Major Design Experience (8 hours)									
Approved CS MDE course ⁷	4	-	-	-	-	-	-	4	-
EECS 496 Major Design Experience Professionalism	2	-	-	-	-	-	-	2	-
TCHNCLCM 497 or TCHNCLCM 496	2	-	-	-	-	-	-	2	-
Technical Electives (26 hours)									
Upper Level CS Technical Electives ⁸	16	-	-	-	-	-	4	4	8
Flexible Technical Electives ^{9,10}	10	-	-	-	4	4	-	-	2
General Electives (15 hours)	15	-	-	3	-	-	4	4	4
Total	128	17	17	16	16	16	16	16	14

Revised: April-17

Candidates for the Bachelor of Science in Engineering in Computer Science - B.S.E. in C.S. - must complete the program listed above. This sample schedule is an example.

Notes:

C- Rule: Among science, engineering and mathematics courses, a grade of C- or below is considered unsatisfactory.

Credits from a course may only be used to fulfill a single requirement (no double counting).

¹If you have a satisfactory score or grade in Chemistry AP, A-Level, IB Exams or transfer credit from another institution for Chemistry 130/125/126 you will have met the Chemistry Core Requirement for the College of Engineering.

²If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams or transfer credit from another institution for Physics 140/141 and 240/241 you will have met the Physics Core Requirement for the College of Engineering.

³The requirements for Math 214 can be satisfied by Math 217, 417, or 419.

⁴If both Math 215 and Math 216 are taken, Math 216 will be counted as a Flexible Technical Elective.

⁵Math 465 can be used to satisfy this requirement.

⁶Stats 250, EECS 301, and IOE 265 are 4 hour courses; if this is elected, the extra hour is counted toward General Electives.

⁷An approved Computer Science (CS) Major Design Experience (MDE) course; see the appropriate CS Program Guide for the current list. Must be taken in the same term as EECS 496 and TCHNCLCM 497. A 3-credit CS MDE course can be used if a total of 27 credits of Technical Electives are elected.

⁸Upper Level CS Technical Electives (ULCS): approved Computer Science courses at the 300-level or higher. See the appropriate CS Program Guide for the current list.

⁹Flexible Technical Electives (FTEs): Approved courses at the 200 or higher level. See the appropriate CS Program Guide for the current list.

¹⁰A maximum of 4 hours of EECS 499 (or other upper-level directed/independent study) may be applied to Flexible Technical Electives. Anything beyond 4 hours