BS in Computer Science and Engineering – Sample Study Plan

Year 1 – Term 1 (Fall)

Course Type	Course Code	Course Title	ECTS
Compulsory	CSEN 100	Introduction to Computer Science and Engineering	6
Compulsory	CSEN 101	Introduction to Programming	6
Compulsory (MATH/STAT)	MATH 100	Calculus and Analytic Geometry III	6
Compulsory (Gen Ed)	ENGL 100	Academic English	6
Gen Ed Elective		General Education Elective	6

Year 1 – Term 2 (Spring)

Course Type	Course Code	Course Title	ECTS
Compulsory	CSEN 111	Discrete Math	6
Compulsory	CSEN 112L	Programming Laboratory	3
Compulsory (MATH/STAT)	MATH 201	Elementary Linear Algebra with Applications	6
Compulsory (Gen Ed)	ENGL 101	Advanced Academic English	6
Compulsory (Gen Ed)	PHYS 104	Electricity and Magnetism	6
Gen Ed Elective		General Education Elective	6

Year 2 – Term 3 (Fall)

Course Type	Course Code	Course Title	ECTS
Compulsory	CSEN 201	Object Oriented Programming	6
Compulsory	CSEN 203	Digital Systems Design	6
Compulsory	CSEN 203L	Digital Systems Design Laboratory	3
Compulsory (MATH/STAT)	STAT 101	Introduction to Probability and Random Variables	6
Compulsory (Gen Ed)	PHYS 100	Introductory Physics II	6
Gen Ed Elective		General Education Elective	6

Year 2 – Term 4 (Spring)

Course Type	Course Code	Course Title	ECTS
Compulsory	CSEN 214	Algorithms and Data Structures	6
Compulsory	CSEN 211	Computer Organization and Design	6
Compulsory (Gen Ed)	PHIL 130	Ethics	6
Gen Ed Elective		General Education Elective	6
Gen Ed Elective		General Education Elective	6

Year 3 – Term 5 (Fall)

Course Type	Course Code	Course Title	ECTS
Compulsory	CSEN 301	Operating Systems	6
Compulsory	CSEN 302	Theory of Computation	6
Gen Ed Elective		General Education Elective	6
Gen Ed Elective		General Education Elective	6
Gen Ed Elective		General Education Elective	6

Year 3 – Term 6 (Spring)

Course Type	Course Code	Course Title	ECTS
Compulsory	CSEN 311	Computer Networks	6
Compulsory	CSEN 312	Database Systems	6
Compulsory	CSEN 313	Software Engineering	6
Gen Ed Elective		General Education Elective	6
Gen Ed Elective		General Education Elective	6

Year 4 – Term 7 (Fall)

Course Type	Course Code	Course Title	ECTS
Compulsory	CSEN 401	Artificial Intelligence	6
Compulsory	CSEN 490	Internship	6
Core CSE Elective		Core CSE Elective Course	6
Core CSE Elective		Core CSE Elective Course	6
General/Technical Elective		General/Technical Elective Course	6

Year 4 – Term 8 (Spring)

Course Type	Course Code	Course Title	ECTS
Compulsory	CSEN 499	Capstone Project/Thesis	6
Core CSE Elective		Core CSE Elective Course	6
Core CSE Elective		Core CSE Elective Course	6
Core CSE Elective		Core CSE Elective Course	6
General/Technical Elective		General/Technical Elective Course	6