

## BSCSE Program 8-Semester Study Plan

First Year (Freshman)							
Fall Semester				Winter Semester			
Course Code	Course Title	Credits*	Prerequisite	Course Code	Course Title	Credits	Prerequisite
ENL 101	English Composition	3-3-0	None	ENL 102	Communication Skills	3-3-0	None
MAT 111	Calculus I	3-3-0	None	MAT 112	Calculus II	3-3-0	MAT 111
PHY 111	Engineering Physics I	3-3-0	None	MAT 113	Linear Algebra and Complex Variables	3-3-0	MAT 111
SAT 103	Computer Application and Technology	3-3-0	None	ENG 131	Introduction to Programming	3-2-2	NONE
CHM 111	General Chemistry	3-2-2	None	PHY 112	Engineering Physics II	3-2-2	PHY 111
SAT 105	General Science	3-3-0	None	SAT 102	Fundamentals of Statistics	3-3-0	None
Total Credits		18				18	
Second Year (Sophomore)							
MAT 214	Differential Equations	3-3-0	MAT 112	ENG 252	Electronics I	3-2-2	ENG 241
CSC 215	Discrete Structures	3-3-0	None	ENG 232	Engineering Graphics	2-1-2	SAT 103
ENG 241	Circuit Analysis I	3-2-2	PHY 112	MAT 216	Introduction to MATLAB	1-0-2	MAT 113
ENG 251	Digital Logic Design	3-2-2	SAT 103	ENL 104	Research and Learning Skills	3-3-0	None
CSE 233	Object Oriented Programming	3-2-2	ENG 131	SAH 102	Islamic Studies	3-3-0	None
ENL 103	Technical Writing	3-3-0	None	CSC 210	Data Structures and Algorithm Analysis	3-2-2	CSE 233 and CSC 215
				CSC 252	Computer Organization	3-2-2	NONE
Total Credits		18				18	
Third Year (Junior)							
ENG 343	Signals and Systems	3-2-2	MAT 214	CSE 441	Software Engineering	3-3-0	CSE 233
ENG 354	Microprocessor Programming and Interfacing	3-2-2	ENG 251	CSE 396	Internship	3	>= 80 Credits, CGPA >= 2.0
CSE 351	Computer Networks	3-2-2	CSC 252	SAH 101	UAE Society	3-3-0	None
CSE 334	Automata and Formal Languages	3-3-0	MAT 215	MAT 317	Probability Theory	3-3-0	SAT 102
CSC 322	Database Systems	3-2-2	ENG 131	CSE 336	Principles of Programming Languages	3-2-2	CSE 334
ENG 323	Engineering Economics	2-2-0	None	SAH 103	Reasoning and Critical Thinking	3-3-0	None
Total Credits		17				18	
Fourth Year (Senior)							
CSE 497	Senior Year Project Design	3	>= 100 Credits	CSE 471	Project Management	3-2-2	CSE 441
CSC 335	Principles of Operating Systems	3-2-2	CSC 210 and CSC 252	CSE 498	Graduation Project	3	CSE 497
CSE 452	Digital System Design	3-2-2	ENG 354	CSE 451	Computer Architecture	3-2-2	CSC 252
ENG 425	Social and Ethical Issues in Engineering	2-2-0	ENG 323		Elective III	3	
	Elective I	3			Elective IV	3	
	Elective II	3					
Total Credits		17				15	