B.S. in Software Engineering

Plan of Study (BSSE)

Planning Your Course Progression

Engineering courses (ENGR, ESCI, ELEC, AERO, MECH, CESC) are offered four times a year. Other supporting courses (i.e., Calculus, Physics, English, etc.) are offered more frequently. The suggested Plan of Study shows a sequence of courses for a typical four- year program. There are four terms a year. In a given year there are four tracks that these terms are offered. For example, the first track starts with term 1 in August and then progresses with term 2 in October, term 3 in January and then term 4 in March. The other three tracks follow the same progression but with different start dates for the first term as indicated in the figure. BSE--- students should follow this approach when planning their course progression.

Year One

Term 1		Credits
ENGR 101	Introduction to Engineering	3
CPSC 222	Introduction to Discrete Structures	3
CPSC 223	Scientific Programming in C	3
	Credits Subtotal	**9.0**
Term 2		
CPSC 225	Computer Science II	3
CPSC 227	Computer Science II Laboratory	1
MATH 241	Calculus and Analytical Geometry I	4
	Credits Subtotal	**8.0**
Term 3		
MATH 242	Calculus and Analytical Geometry II	4
ENGL 123	English Composition	3
	Humanities Lower-Level (HUMN)	3
	Credits Subtotal	**10.0**
Term 4		
COMD 219	Speech	3
PHYS 150	Physics I for Engineers	3
	Credits Subtotal	**6.0**
	Credits Total:	**33.0**

Year Two

Term 1		Credits
PHYS 250	Physics III for Engineers	3
PHYS 253	Physics Laboratory for Engineers	2
SWEN 300	Software Engineering Practices	3
	Credits Subtotal	**8.0**
Term 2		
CESC 220	Digital Circuit Design	3
CESC 222	Digital Circuit Design Laboratory	1
STAT 412	Probability and Statistics	3
	Credits Subtotal	**7.0**
Term 3		
CESC 320	Microprocessor Systems	3
CESC 322	Microprocessor Systems Laboratory	1
	Upper-Level MATH Elective (MATH 432)	3
	Credits Subtotal	**7.0**
Term 4		
ENGL 221	Technical Report Writing	3
	Psychology Lower-Level	3
	Credits Subtotal	**6.0**
	Credits Total:	**28.0**

Year Three

Term 1		Credits
CPSC 315	Data Structures and Analysis of Algorithms	3
CPSC 362	Computing Theory	3
CPSC 317	Files and Database Systems	3
	Credits Subtotal	**9.0**
Term 2		
CPSC 332	Organization of Programming Languages	3
SWEN 310	Analysis and Design of Software Systems	3
CPSC 420	Operating Systems	3
	Credits Subtotal	**9.0**
Term 3		
CESC 470	Computer Architecture	3
SWEN 320	Software Construction	3
	Credits Subtotal	**6.0**
Term 4		
	Specified Elective (CESC 300)	3
	Humanities Upper-Level (HUMN)	3
	Credits Subtotal	**6.0**
	Credits Total:	**30.0**

Year Four

Term 1		Credits
CPSC 432	Information and Computer Security	3
CESC 450	Real-Time Embedded Systems	3
SWEN 420	Software Quality Assurance	3
	Credits Subtotal	**9.0**
Term 2		
	Specified Elective (CPSC 335)	3
	Specified Elective (SWEN 410)	3
	CPSC Upper-Level Elective (CPSC 462)	3
	Credits Subtotal	**9.0**
Term 3		
SWEN 450	Software Team Project I	3
	CPSC Upper-Level Elective (CPSC 455)	3
	Credits Subtotal	**6.0**
Term 4		
SWEN 451	Software Team Project II	3
	Psychology Lower-Level	3
	Credits Subtotal	**6.0**
	Credits Total:	**30.0**

Total Degree Requirements — **121**