

Bachelor of Science in Computer Engineering (BSCompE)

St. Cloud State University

Effective Fall 2008

	First Year		Second Year		Third Year		Fourth Year		
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	
	Calculus MATH 221*		Discrete MATH 273*	Diff Eq MATH 325		MATH/PHYS Elective			
		MATH 222*				Prob & Stat STAT 353 or 417			
	Calc-Based Physics PHYS 234*		PHYS 235*						
						See an ECE advisor before registration.			
	Intro. To Engr. Profession ECE / MME 101*		Circuits I ECE 201*	Circuits II ECE 202	Digital ECE 311 Electronics	ECE 301	Senior Design ECE 461 ECE 462		
	Prob Solving ECE 102*			Circuits Lab Adv. Logic ECE 322	Microproc ECE 323	Jr. Elective	Comp. Eng. Electives (See back)	Comp. Eng. Elective (See back)	
			Logic ECE 221*				Comp. Eng. Electives (See back)	Comp. Eng. Elective (See back)	
		Fund. of CS CSCI 201*		Algrs & Sys CSCI 301	Oper. Sys. CSCI 310	CSCI 311		Senior Elective (See back)	
					Soft. Sys. CSCI 331				
	Most classes offered twice a year. This is a suggested schedule.								
							GEN ED		
	English ENGL 191* +	Racial Issues (GEN ED)	Intro to Comm Studies CMST 192	Critical Thinking PHIL 194	Dem. Citizenship 195	PESS 122	GEN ED	GEN ED	

1
2 ← The scale indicates the credit hours for a class
3
4

*Class required for admission to major
(Check prerequisites carefully)
+ Effective Fall 2008 / See Your Advisor
Revised:09/17/2008

Notes:

Availability of courses: The calculus and physics courses have multiple sections offered each semester. All required electrical engineering courses are offered both fall and spring semesters. (CSCI 331 is only offered in the fall semester.) CompE elective courses are offered once a year (some are offered on alternate years). Check the Department of Electrical & Computer Engineering (ECE) bulletin boards for a calendar.

Freshman engineering courses: ECE 101 can substitute for MME 101, and MME 102 can substitute for ECE 102. Permission is not required to make these substitutions.

Bachelor of Science – Computer Engineering

Major (102)

Required Classes (78 credits): ECE 101, 102, 201, 202, 203, 221, 301, 311, 322, 323, 461, 462; CSCI 201, 301, 310, 311, 331; PHYS 234, 235; MATH 221, 222, 273, 325.

Statistics Elective (3 credits): Choose either STAT 353 or STAT 417.

Junior Elective (3 credits): Choose from ECE 312, 381, 391, CSCI 330, 430, MATH 373.

Math and Physics Electives (3 credits): Choose from Math 311, 312, 321, 373, 452; PHYS 328, 333, 346.

Senior Elective (3 credits): Choose from PHYS 435, 436, 445; ENGR 425, 447; MATH 421, 423, 427, 452, 461; MME 450, or any 400 level ECE or CSCI course not included in the student's Computer Engineering Elective sequence.

Computer Engineering Electives (12 credits): Choose 1 sequence from the following:

- Hardware Systems: ECE 421, 422, and 423 (ECE 422 cannot double count as the Junior Elective), and 3 credits of 400 level CSCI coursework (CSCI 412 Highly Recommended).
- Software System: CSCI 411, 412, and 413, and 1 of the following: ECE 421, 422 (cannot double count as Junior Elective), 423.

Senior Design: In order to start senior design (EE 461/2) the following courses must have been satisfactorily completed:

ENGL 191, CMST 192, CSCI 201, STAT 353/417, ECE 301, 312, 322, 323. Senior Design is to be a capstone sequence, taken in the last year of attendance. The student must develop a schedule that demonstrates the graduation is possible by the end of the second semester.