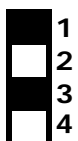


Bachelor of Science in Electrical Engineering (BSEE)

St. Cloud State University Effective Fall 2008

First Year		Second Year		Third Year		Fourth Year	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
MATH 221*	Calculus MATH 222*	Diff Eq MATH 325			Prob & Stat STAT 353/417		
Gen Chem CHEM 210*	Calc-Based Physics PHYS 234*	PHYS 235*	Math/Phys Elective (see back)	PHYS Elective (see back)			
			Non EE Elective				
			CSCI 201			See an ECE advisor before registration	
Intro. To Engr. Profession ECE / MME 101*	Prob Solving ECE 102*	Circuits I ECE 201*	Circuits II ECE 202	Electromag ECE 391	ECE 301 Signals Systems		Senior Elective (See Back)
		Logic ECE 221*	Circuits Lab		Electronics	Depth Elective (See Back)	Depth Elective (See Back)
				ECE 311 Digital	ECE 312 Analog	Breadth Elective (See Back)	Breadth Elective (See Back)
				Adv. Logic ECE 322	Microproc ECE 323	Senior Design ECE 461 ECE 462	
						Dem. Citizenship 195	
English ENGL 191* +	PESS 122 Racial Issues (GEN ED)		Intro to Comm Studies CMST 192	Critical Thinking PHIL 194	GEN ED	GEN ED	GEN ED

This is a suggested schedule
Most classes offered twice a year.



The scale indicates the
credit hours for a class

*Class required for admission to major
(Check prerequisites carefully)

+ Effective Fall 2008 / See Your Advisor

Revised: 09/19/2008

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. ECE 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 – Electrical Engineering

Major (102) – ABET accredited

Required Classes (75 credits): ECE 101, 102, 201, 202, 203, 221, 301, 311, 312, 322, 323, 391, 461, 462; CHEM 210; CSCI 201; PHYS 234, 235; MATH 221, 222, 325

Non-EE Electives (3 credits): Choose from ENGR 334, MME 200, 210, 220, 241; PHYS 328, 329, 333; MATH 273; CHEM 211.

PHYS/MATH Elective (3 credits): Choose from PHYS 346, MATH 311

PHYS Elective (3 credits): Choose from PHYS 328, 329, 435, 436, 445

STAT Elective (3 credits): Choose from STAT 353 or 417

Electrical Engineering Electives (6 credits): Choose from ECE 411, 421, 422, 423, 432, 433, 440, 452, 471, 473, 474, 482

Depth Sequence (6 credits): Choose one sequence of courses from the 400 level ECE courses from the sequence listed below:

Digital Sequence: ECE 421 and choose either ECE 422 or 423.

Communication Sequence: ECE 431 and choose either ECE 432 or 433.

Controls Sequence: ECE 451 and ECE 452.

Digital Signal Processing Sequence: ECE 471 and choose either ECE 473 or 474.

Breadth Electives (6 credits): Choose two from ECE 411, 421, 423, 431, 451, 471, or 482.

Senior Elective (3 credits): Choose from PHYS 435, 436, 445; ENGR 425, 447; MATH 421, 423, 427, 452, 461; STAT 353, 417, 447; CSCI 330, 331, 421, 450; ECE 381, 411, 421, 422, 423, 431, 432, 433, 440, 444, 451, 452, 471, 473, 474, 482; MME 350, 351, 450.

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, 391. 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.