ST. CLOUD STATE UNIVERSITY

Computer Engineering B.S. (106-109 Credits)

This is a recommended course sequence based on the current University Catalog for this degree and illustrates how the degree could be completed in as little as eight semesters. Actual plans for individual students will vary based on transfer credits, semester start, advisor recommendations and academic needs. See "Be Advised" section for additional notes and requirements specific to this major.

Scan QR code for program requirements, course descriptions, and learning outcomes in the University Catalog.

Semester 1	Credits	Semester 2	Credits
MATH 221	4	MATH 222	4
Goal Area	3	PHYS 234	5
GENG 101	3	GENG 102	3
Goal Area	4	Goal Area	3
Total Semester Credits	**14**	**Total Semester Credits**	**15**
Semester 3	Credits	Semester 4	Credits
MATH 271	3	PHYS 235	5
ECE 201	3	ECE 202	4
ECE 220	4	ECE 320	4
CSCI 201	4	CSCI 301	3
Goal Area	2		
Total Semester Credits	**16**	**Total Semester Credits**	**16**
Semester 5	Credits	Semester 6	Credits
ECE 314	4	Statistics Elective	3
ECE 323	4	Junior Elective	3
CSCI 310	3	ECE 301	4
MATH 327	4	CSCI 311	2
Goal Area	3	CSCI 331	3
Total Semester Credits	**18**	**Total Semester Credits**	**15**
Semester 7	Credits	Semester 8	Credits
Computer Engineering Elective	6	Senior Elective	3
ECE 461 or 462	3	Computer Engineering Elective	6
Science Elective	3	ECE 461 or 462	3
Goal Area	3	Goal Area	3
Goal Area	3		
Total Semester Credits	**18**	**Total Semester Credits**	**15**

BE ADVISED…

1. Computer Engineering Electives (21-23 credits)
   a. Statistics Elective (3 credits): STAT 353 or STAT 417.
   b. Science Elective (3 credits): Select one course from AHS 106, BIOL 101, BIOL 102, CHEM 105, PHYS 208.
   c. Junior Elective (3-4 credits): Select one course from ECE 316, ECE 391, ECE 390, CSCI 330, MATH 312, MATH 320, MATH 321, MATH 353, PHYS 328, PHYS 333, PHYS 346.
   d. Senior Elective (3-4 credits): Select one course from PHYS 435, PHYS 436, MATH 411, MATH 421, MATH 423, MATH 427, MATH 452, MATH 455, MME 450, CYB 433, or any 400 level ECE or CSCI course not included in the student's Computer Engineering Elective sequence.
   e. Computer Engineering Electives (12 credits): Select one four-course sequence from the following:
      i. Hardware Systems: ECE 421, ECE 422, and ECE 423 and 3 credits of 400 level CSCI coursework.
      ii. Software Systems: CSCI 411, CSCI 415, and any 3 credits of CSCI 400 level course, and 1 course from the following: ECE 421, ECE 422, ECE 423.
   f. No elective courses can double count.
2. Students fulfill the University's Upper Division Writing Requirement by successfully completing ECE 380.
3. Required to complete GENG 101, GENG 102, ECE 201, ECE 220, ENGL 191, MATH 221, MATH 222, MATH 271, PHYS 234, PHYS 235, and CSCI 201 with a grade point average (GPA) of at least 2.0. C or better in GENG 102, ECE 201, and ECE 220 is required.
4. The Bachelor of Science in Computer Engineering, offered by the Electrical and Computer Engineering Department, are accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org.
5. All SCSU students must complete a minimum of 120 credits to graduate.
6. All SCSU students must have at least 40 credits of 300/400 level courses to graduate.
7. All SCSU students must complete a minimum of 40 credits of Liberal Education courses AND meet the requirements of all 10 goal areas, including RIGR and Diversity.
8. Apply for graduation one semester before you plan to graduate.

The degree map does not substitute for professional advising. Review your degree audit report and see your advisor each semester.

St. Cloud State University, a member of Minnesota State