

COMPUTER ENGINEERING MAJOR, BACHELOR OF SCIENCE (B.S.)

Freshman Year

1st Semester		Credit Hours
MATH 260	Calculus I	4
ENGL 110	Composition I	3
GE Social Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gesocialscienceelectivestext)		3
GE History Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gehistoryelectivestext)		3
ENGR 101	Introduction to Engineering I	2
GE Wellness/Health Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gewellnesshealthtext)		2
Credit Hours		17

2nd Semester

MATH 261	Calculus II	4
ENGL 111	Composition II	3
Restricted Elective		3
ENGR 102	Introduction to Engineering II	2
ENGR 203	Introduction to Programming	3
Credit Hours		15

Sophomore Year

1st Semester		Credit Hours
PHYS 112	General Physics I (and Lab)	4
ENGL 342	Technical Communication	3
CPEG 207	Introduction To Digital System	3
CPEG 227	Digital Systems Laboratory	1
ENGR 204	Intro to Object Oriented Progr	3
Open Elective		3
Credit Hours		17

2nd Semester

PHYS 113	General Physics II (and Lab)	4
ENGR 201	Circuit Analysis	3
ENGR 221	Analog Circuits Laboratory	1
MATH 350	Differential Equations	3
CPEG 208	Microprocessors	3
CPEG 228	Microprocessors Laboratory	1
Credit Hours		15

Junior Year

1st Semester		Credit Hours
CHEM 151	General Chemistry I	3
CHEM 153	General Chemistry I Laboratory	1
MATH 284	Discrete Mathematics I	3
MATH/SCI Elective		3
CPEG 303	Introduction To Electronics	3
CPEG 323	Introd Electronic Laboratory	1
CPEG 307	Linear System Analysis	3
Credit Hours		17

2nd Semester

CPEG 305	Operating Systems	3
CPEG 309	Advanced Digital Systems Desig	3
CPEG 329	Adv Digital System Design Lab	1
ENGR 310	Engineering Economics	3
GEEN 310	Advanced Communication Skills	3
Restricted	Elective ²	3
Credit Hours		16

Senior Year

1st Semester

CPEG 416	Embedded Controllers	3
CPEG 426	Embedded Controllers Lab	1
ENGR 301	Engineering Statistics	3
CPEG 461	Senior Design I	2
GE Social Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gesocialscienceelectivestext)		3
Restricted	Elective ³	3
Credit Hours		15

2nd Semester

CPEG 404	Real-Time Data Acquis Contr Sy	3
CPEG 413	Digital Signal Process Filter	3
CPEG 423	Digital Signal Proc/Filter Lab	1
CPEG 462	Senior Design II	2
PHIL 450	Applied Ethics	3
GE Literature Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geliteratureelectivestext)		3
Credit Hours		15
Total Credit Hours		127

1. 100 level and above courses from CPEG, MANE, ENGR, ENGT, IFLT, CSCI, and MISY.

2. 200 level and above courses from CPEG, MANE, ENGR, ENGT, IFLT, CSCI, and MISY.

3. 300 level and above courses from CPEG, MANE, ENGR, ENGT, IFLT, CSCI, MISY, and MATH

4. General Elective

¹²³Requires prior approval

Earn at least a "C" or higher in major courses (ENGR, CPEG, and restricted electives), MATH 260, and MATH 261.

General Education Requirements for the B.S. Degree

Code	Title	Credit Hours
GE English Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geenglishselectivestext)		
GE Global Studies Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geglobalstudiestext)		
GE History Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gehistoryelectivestext)		
GE Humanities Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geselectivestext)		
GE Literature Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geliteratureelectivestext)		
GE Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gescienceelectivestext)		
GE Social Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gesocialscienceelectivestext)		
GE Wellness/Health Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gewellnesshealthtext)		
GE Mathematics Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gemathematicselectivestext)		

Total Requirements Semester Hours: 33

A single course may simultaneously fulfill a general education requirement and a departmental or major/minor requirement. A single course cannot be used to fulfill more than one general education requirement. Department or major/minor areas may opt to exceed the minimum credit hour requirements above.

Code	Title	Credit Hours
CPEG 207	Introduction To Digital System	3
CPEG 208	Microprocessors	3
CPEG 227	Digital Systems Laboratory	1
CPEG 228	Microprocessors Laboratory	1
CPEG 303	Introduction To Electronics	3
CPEG 305	Operating Systems	3
CPEG 307	Linear System Analysis	3
CPEG 309	Advanced Digital Systems Desig	3
CPEG 323	Introd Electronic Laboratory	1
CPEG 404	Real-Time Data Acquis Contr Sy	3
CPEG 413	Digital Signal Process Filter	3
CPEG 416	Embedded Controllers	3
CPEG 423	Digital Signal Proc/Filter Lab	1
CPEG 426	Embedded Controllers Lab	1
CPEG 461	Senior Design I	2
CPEG 462	Senior Design II	2

Total Credit Hours 36

Code	Title	Credit Hours
ENGL 342	Technical Communication	3
PHYS 113	General Physics II	1-4
CHEM 151 & CHEM 153	General Chemistry I and General Chemistry I Laboratory	4
MATH 350	Differential Equations	3
MATH 284	Discrete Mathematics I	3

Total Credit Hours 14-17

Code	Title	Credit Hours
	Restricted Elective	3
	Restricted Elective	3
	Restricted Elective	3
	Free Elective	3

Total Credit Hours 12

Code	Title	Credit Hours
	General Education	35
	Core Requirements	57
	Major/Concentration Requirements	17
	Electives	12

Total Credit Hours 121