

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

Course	Title	Credit Hours
Freshman Year		
CSCI 101	Intro to the Cmptr Sci Profession	2
CSCI 150	Programming I	3
CSCI 151	Programming 1 Lab	1
MATH 260	Calculus I	4
ENGL 110	Composition I	3
GE Wellness/Health Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gewellnesshealthtext)		2
CSCI 250	Programming II	3
CSCI 251	Programming II Lab	1
MATH 261	Calculus II	4
ENGL 111	Composition II	3
GE History Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gehistoryelectivestext)		3
GE Social Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gesocialscienceelectivestext)		3
Credit Hours		32
Sophomore Year		
CSCI 287	Data Structures	3
CSCI 303	Computer Org & Architecture	3
MATH 280	Discrete Math Computer Science	3
ENGL 342 or ENGL 310	Technical Communication or Advanced Communications Skills	3
CSCI 281	Discrete Structures	3
GE Global Studies Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geglobalstudiestext)		3
CSCI 296	Web Programming	3
CSCI 356	Database Systems	3
PHIL 275 or PHIL 450	Ethics ((Humanities Elective)) or Applied Ethics	3
GE Literature Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geliteratureelectivestext)		3
Credit Hours		30
Junior Year		
STAT 340	Probability Stat Cmptr Scienti	3
CSCI 392	Algorithms & Adv Data Structur	3
CSCI 487	Software Design And Developmen	3
CSCI 445	Computer Communication Network	3
BIOL/CHEM/PHYS Laboratory Science **		4
Unrestricted Elective		3
CSCI/MATH/STAT Elective		3
CSCI 489	Operating Systems	3
CSCI 400	Computer Science Seminar	2
CSCI 358	Introd Information Assurance	3
Credit Hours		30
Senior Year		
CSCI 493	Senior Project I	3
CSCI Elective (330-level or higher)		3
CSCI 471	Parallel & Distributed Program	3
Unrestricted Elective		3
BIOL/CHEM/PHYS Laboratory Science **		4
CSCI 485	Programming Languages	3
CSCI 494	Senior Project II	3
CSCI Elective (330-level or higher)		3

MATH Restricted Elective*	3
Credit Hours	28
Total Credit Hours	120

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
CSCI 101	Intro to the Cmptr Sci Profession	2
CSCI 150	Programming I	3
CSCI 151	Programming 1 Lab	1
CSCI 250	Programming II	3
CSCI 251	Programming II Lab	1
CSCI 281	Discrete Structures	3
CSCI 287	Data Structures	3
CSCI 296	Web Programming	3
CSCI 303	Computer Org & Architecture	3
CSCI 356	Database Systems	3
CSCI 358	Introd Information Assurance	3
CSCI 392	Algorithms & Adv Data Structur	3
CSCI 400	Computer Science Seminar	2
CSCI 445	Computer Communication Network	3
CSCI 471	Parallel & Distributed Program	3
CSCI 485	Programming Languages	3
CSCI 487	Software Design And Developmen	3
CSCI 489	Operating Systems	3
CSCI 493	Senior Project I	3

CSCI 494	Senior Project II	3
Total Credit Hours		54

Code	Title	Credit Hours
MATH 260	Calculus I	4
MATH 261	Calculus II	4
MATH 280	Discrete Math Computer Science	3
STAT 340	Probability Stat Cmptr Scienti	3
Total Credit Hours		14

Code	Title	Credit Hours
Unrestricted Electives		6
Restricted Electives		13

CSCI Electives Menu

CSCI 312	Introduction to Robotics
CSCI 361	Embedded Syst: Design/Applic
CSCI 389	Human-Computer Interaction
CSCI 396	Advanced Web Programming
CSCI 298	Internship Computer Science I
CSCI 398	Internship Computer Science II
CSCI 402	Introd Artificial Intelligence
CSCI 450	Computer Forensics
CSCI 451	Computer Security
CSCI 452	Introd to Cryptography
CSCI 453	Digital Image Processing
CSCI 456	Advanced Database Applications
CSCI 457	Introduction to Data Mining
CSCI 460	Computability & Formal Lang Th
CSCI 462	Compiler Construction
CSCI 480	Computer Graphics
CSCI 482	Matrix Computations
CSCI 488	Advanced Systems Architecture
CSCI 492	Algorithms And Complexity
CSCI 495	Topics In Computer Science
CSCI 496	Web Design & Cyber Security

MATH Electives Menu

MATH 292	Introduction to Number Theory
MATH 317	Stochastic Processes
MATH 321	Combinatorics
MATH 325	Linear Algebra
MATH 335	Mathematical Modeling
MATH 340	Euclidean & Noneuclid Geomet I
MATH 348	Introduction to Game Theory
MATH 350	Differential Equations
MATH 352	Intro to Mathematical Biology
MATH 360	Calculus III
MATH 392	Introduction Linear Programmin
MATH 415	Matrix Theory
MATH 417	Numerical Linear Algebra
MATH 425	Abstract Algebra I
MATH 452	Numerical Analysis

MATH 473 Discrete Wavelet Transfor/Appl

MATH 490 Graph Theory

STAT 380 Probability & Statistics II

BIOL/CHEM/PHYS Laboratory Courses Courses must be intended for science and engineering majors. Select from the following list and get the approval from the student's academic advisor.

PHYS 105 Introduction to Physics I

PHYS 106 Introduction to Physics II

PHYS 112 General Physics I

PHYS 113 General Physics II

CHEM 151 General Chemistry I
& CHEM 153 and General Chemistry I LaboratoryCHEM 152 General Chemistry II
& CHEM 154 and General Chemistry II Laborator

BIOL 120 Principles Of Biology I

BIOL 121 Principles Of Biology II

Total Credit Hours 19

Code	Title	Credit Hours
General Education		33
Core Requirements		54
Major/Concentration Requirements		14
Electives		19

Total Credit Hours 120