

DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science offers a four-year program leading to the Bachelor of Science degree in Computer Science. The program is accredited by the Computing Accreditation Commission ABET, 111 Market Place Suite 1050, Baltimore, MD 21202-4012--telephone 410-347-7700. This program is designed to provide the foundation necessary for computer science graduates to succeed in the computing profession as well as in graduate school.

The department also offers courses in computing applications designed to meet the needs of students in other disciplines.

MAJORS

Students wishing to major, or co-major, in Computer Science must complete following:

1. Forty-three or more semester hours of Computer Science course work as specified in the curriculum, below,
2. Sixteen or more semester hours of mathematics course work, as specified in the curriculum, below,
3. Twelve or more semester hours of science course work, as specified in the curriculum, below, and
4. Thirty or more semester hours of broad, general education course work.

In addition, students must complete a departmentally specified, comprehensive computer science examination in their final semester.

HONORS DIPLOMA IN THE DISCIPLINE

The department also offers an upper-division honors curriculum allowing its students to earn an honors diploma in the major at graduation. For information about requirements and honors courses in this department, please contact the Department Head.

MINORS

A Computer Science minor consists of the following eighteen semester hours of coursework in Computer Science: CMPS 161, 257, 280, either 262, 285, or 293, and two 300- or 400-level computer science electives, which must be approved by the department head.

An Applied Computing minor consists of eighteen semester hours of coursework in Computer Science: twelve credits from CMPS 120, 225, 233, 234, 235, and 262, and six credits from CMPS 309, 335, and 409.

CURRICULUM IN COMPUTER SCIENCE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE INFORMATION SYSTEMS CONCENTRATION

FIRST SEMESTER	S.H.	FIRST YEAR SECOND SEMESTER	S.H.
†Mathematics 200	5	†Mathematics 201	5
English 101	3	English 102.....	3
History Elective	3	†Computer Science 257 ³	3
†Computer Science 161	3	†Computer Science 280	3
Orientation 101	0-1		
	14 - 15		14

	SECOND YEAR	
†Computer Science 262	3	†Computer Science 375
†Computer Science 285	3	†Computer Science 390
†Computer Science 293	3	Social Science Elective ²
Communications 211	3	English 230, 231, or 232
Science Sequence I ⁵	4	Science Sequence II ⁵
	16	
		THIRD YEAR
†Computer Science 401	3	†Computer Science 383
†Computer Science Elective(300-400 level)....	3	†Computer Science 431
English 322	3	Economics 201 or 202
Accounting 200	3	Art/Music Elective ¹
Biology Elective ⁵	4	Elective
	16	
		FOURTH YEAR
†Computer Science 411	3	†Computer Science 439
†Computer Science Elective(300-400 level)....	3	†Computer Science 481
Arts/Social Science Elective ^{1,2}	3	Mathematics Elective ⁴
Finance 381	3	Management 362
Mathematics 380	3	Electives
	15	
Total semester hours required		120-121

Orientation 101 is not required of transfer or readmitted Southeastern students with 30 hours or more.
Students must earn a grade of "C" or better in all Computer Science courses and in Math 200 and 201.

¹Choose one from the following: Visual Arts, Music, Dance, or Theatre

²Choose one from the following: Anthropology, Geography, Psychology, Political Science, or Sociology.

³Mathematics 223 may be substituted for Computer Science 257

⁴Choose from Mathematics 312, 350, 360, 370, 410, or 414

⁵Science sequence: Choose from (Physics 221/223 & 222/224) or (Biology 151/152 & 153/154) or (Chemistry 121/123 & 122/124)

Note: Because Biology 151 and 153 satisfy the Biological Science requirement, students taking biology as their science sequence must take a physics or chemistry course, with a lab, to replace it.

INFORMATION SYSTEMS CONCENTRATION ELECTIVES

†Computer Science 262	3 hours
†Computer Science 383	3 hours
†Computer Science 439	3 hours
Accounting 200	3 hours
Management 362	3 hours
Finance 381	3 hours

CURRICULUM IN COMPUTER SCIENCE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE SCIENCE CONCENTRATION

FIRST SEMESTER	S.H.	FIRST YEAR	S.H.
†Mathematics 200	5	SECOND SEMESTER	
English 101	3	†Mathematics 201	5
History Elective	3	English 102	3
†Computer Science 161	3	†Computer Science 257 ³	3
Orientation 101	0-1	†Computer Science 280	3
	14 - 15		14

†Computer Science 285	3	SECOND YEAR	†Computer Science 375	3
†Computer Science 293	3		†Computer Science 390	3
Communications 211	3		Social Science Elective ²	3
Economics 201 or 202	3		English 230, 231, or 232	3
Science Sequence I ⁵	4		Science Sequence II ⁵	4
	16			16

†Computer Science 401	3	THIRD YEAR	†Computer Science 431	3
†Computer Science Elective(300-400 level)	3		†Computer Science Elective(300-400 level)	3
English 322	3		Mathematics Elective ⁴	3
Mathematics 380	3		Art/Music Elective ¹	3
Biology Elective ⁵	4		Elective	3
	16			15

†Computer Science 391	3	FOURTH YEAR	†Computer Science 479	3
†Computer Science 411	3		†Computer Science 481	1
Arts/Social Science Elective ^{1,2}	3		Mathematics Elective ⁴	3
Elective	3		Phys/Biol Science Elective ⁵	4
Elective	3		Electives	4
	15			15

Total semester hours required 121-122

Orientation 101 is not required of transfer or readmitted Southeastern students with 30 hours or more.
Students must earn a grade of "C" or better in all Computer Science courses and in Math 200 and 201.

¹Choose one from the following: Visual Arts, Music, Dance, or Theatre

²Choose one from the following: Anthropology, Geography, Psychology, Political Science, or Sociology.

³Mathematics 223 may be substituted for Computer Science 257

⁴Choose from Mathematics 312, 350, 360, 370, 410, or 414

⁵Science sequence: Choose from (Physics 221/223 & 222/224) or (Biology 151/152 & 153/154) or (Chemistry 121/123 & 122/124)

Note: Because Biology 151 and 153 satisfy the Biological Science requirement, students taking biology as their science sequence must take a physics or chemistry course, with a lab, to replace it.

SCIENCE CONCENTRATION ELECTIVES

†Computer Science 391	3 hours
†Computer Science 479	3 hours
†Second mathematics elective	3 hours
Additional Physical or Biological Science	4 hours
General Electives	6 hours