

College of Business and Technology

DEPARTMENT OF COMPUTER SCIENCE

- [Computer Science](#)

[Concentration in Information Systems](#)

[Concentration in Science](#)

Mission Statement

The Department of Computer Science offers a four-year program, which leads to the Bachelor of Science degree in Computer Science, with concentrations in science and information systems. Computer Science courses designed to meet the needs of students in other disciplines are also offered. The degree program in Computer Science is designed to provide the professional background necessary for successful employment or graduate studies. Graduates from the Computer Science program are sought by industry for positions as program analysts, systems engineers, and applications programmers.

Majors

Students wishing to major in Computer Science must complete forty-three or more semester hours of required coursework in Computer Science as identified within the curriculum. In addition, students must pass an approved comprehensive computer science examination in their senior year.

Minors

Eighteen semester hours of coursework in Computer Science (CMPS 110, 225, 232, 233, and 234 may not be counted toward the minor) with at least six hours at the Junior or Senior level.

Electives

The student is encouraged to confer with his/her faculty advisor so that together they may select courses that will be most beneficial in his/her specialized field.

Curriculum in Computer Science

Leading to the Degree of Bachelor of Science

FIRST YEAR

First Semester	S.H.	Second Semester	S.H.
Mathematics 200	3	Mathematics 201	5
History Elective	3	Biological Science 5	4
English 101	3	English 102	3
Orientation	0-1	†Computer Science 161	3
Art/Music Elective	3		
	14-15		15

SECOND YEAR

First Semester	S.H.	Second Semester	S.H.
†Computer Science 280	3	†Computer Science 293	3
†Computer Science 257 3	3	†Computer Science 390	3
Communications 211	3	Social Science Elective 2	3
Science Sequence, first half 5	4	Science Sequence, second half 5	4
Mathematics 380	3	English 230, 231, or 232	3
	16		16

THIRD YEAR

First Semester	S.H.	Second Semester	S.H.
†Computer Science 297	3	†Computer Science 375	3
Computer Science 401	3	Mathematics Elective 4	3
Concentration Elective	3	Concentration Electives	6
Economics 201 or 202	3	†Computer Science Elective (300-400)	3
English 322	3		
	15		15

FOURTH YEAR

First Semester	S.H.	Second Semester	S.H.
†Computer Science 411	3	†Computer Science 481	1
†Computer Science Elective (300-400)	3	†Computer Science 431	3
Arts/Social Science Elective 1,2	3	Concentration Electives	6-7
Concentration Elective	3	Electives	6
Elective	3		
	15		16-17

Total Semester Hours Required= 122-124

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.

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

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

3 Mathematics 223 may be substituted for Computer Science 257

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

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

Concentration in Information Systems

†Computer Science 262	3 hours
†Computer Science 383	3 hours
†Computer Science 439	3 hours
Accounting 200	6 hours
Management 362	3 hours
Finance 381	3 hours

Total

21 hours

Concentration in Science

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

Total **19 hours**