

# DEPARTMENT OF COMPUTER SCIENCE AND INDUSTRIAL TECHNOLOGY

The Department of Computer Science and Industrial Technology offers preparation for entrance into the teaching profession in the field of Computer Science. Students who major in Computer Science in the College of Education and Human Development will designate as their Primary Teaching Area Computer Science. In addition to the *Primary Teaching Area*, students will have a *Secondary Teaching Area* in Mathematics\*.

\*A grade of "C" or better is required in all science and mathematics areas.

## PRIMARY TEACHING AREA

A minimum of thirty-three (33) semester hours is required for a primary teaching area in Computer Science. Students will schedule:

Computer Science 161 .....	3 semester hours
Computer Science 257 .....	3 semester hours
Computer Science 280 .....	3 semester hours
Computer Science 285 .....	3 semester hours
Computer Science 293 .....	3 semester hours
Computer Science 309 .....	3 semester hours
Computer Science 375 .....	3 semester hours
Computer Science 390 .....	3 semester hours
Computer Science 431 .....	3 semester hours
Computer Science 120 or 401 or 439 .....	3 semester hours
<b>Total .....</b>	<b>33 semester hours</b>

## SECONDARY TEACHING AREAS

Twenty-two (22) semester hours are required for a secondary teaching area of Mathematics. Students will schedule:

Mathematics 200 .....	5 semester hours
Mathematics 201 .....	5 semester hours
Mathematics 223 .....	3 semester hours
Mathematics 309 .....	3 semester hours
Mathematics 380 .....	3 semester hours
Mathematics 460 .....	3 semester hours
<b>Total .....</b>	<b>22 semester hours</b>

## CURRICULUM IN SECONDARY COMPUTER SCIENCE EDUCATION LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

### FIRST YEAR

<p>First Semester</p> <p>†Mathematics 200 ..... 5</p> <p>English 101 ..... 3</p> <p>History 201 or 202 ..... 3</p> <p>†Computer Science 161 ..... 3</p> <p>Communication 210 ..... 3</p> <p>Southeastern 101 ..... 0-1</p> <p style="text-align: right;">17-18</p>	<p>Second Semester</p> <p>†Mathematics 201 ..... 5</p> <p>English 102 ..... 3</p> <p>†Computer Science 257<sup>1</sup> ..... 3</p> <p>†Computer Science 280 ..... 3</p> <p>Art Elective ..... 3</p> <p style="text-align: right;">17</p>
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### SECOND YEAR

<p>First Semester</p> <p>†Computer Science 285 ..... 3</p> <p>SPED 210 ..... 2</p> <p>†††Education 203 ..... 2</p> <p>†††Education 212 (take with EDUC 203) ..... 1</p> <p>English 230 or 231 or 232 ..... 3</p> <p>Science Sequence I<sup>2</sup> ..... 4</p> <p style="text-align: right;">15</p>	<p>Second Semester</p> <p>†Computer Science 293 ..... 3</p> <p>††Educational Psychology 311 ..... 3</p> <p>Social Science Elective ..... 3</p> <p>†Mathematics Elective ..... 3</p> <p>Science Sequence II<sup>2</sup> ..... 4</p> <p style="text-align: right;">16</p>
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### THIRD YEAR

<p>First Semester</p> <p>†Computer Science 309 ..... 3</p>	<p>Second Semester</p> <p>†Computer Science 375 ..... 3</p>
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††Education 407.....	3
††Education 472.....	3
††Education 475.....	1
†Mathematics 309.....	3
†ETEC 310.....	3

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†Computer Science 390 .....	3
Computer Science 120 or 401 or 439.....	3
†Mathematics 380 .....	3
ETEC 410 .....	3
Science Sequence III <sup>2</sup> .....	4

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### FOURTH YEAR

#### First Semester

†Computer Science 431 .....	3
††EPSY 315 .....	3
ETEC 411 .....	3
Education 490.....	3
†Mathematics 460 .....	3

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18

#### Second Semester

††Education 486.....	9
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9

Total semester hours required

127-128

Southeastern 101 is not required of transfer or readmitted Southeastern students with 30 hours or more.

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† A grade of "C" or better is required in all Computer Science and Mathematics courses

†† A grade of "C" or better is required

††† A grade of "B" or better is required

<sup>1</sup>Mathematics 223 may be substituted for Computer Science 257

<sup>2</sup>Science Sequence: Choose from (Physics 221/223 & 222/224) or (Biology 151/152 & 153/154) or (Chemistry 121/123 & 122/124)