

# COMPUTER SCIENCE ENGINEERING

## Guided Pathway/Map

**NOTE:** The Guided Pathway below contains all the coursework required for degree/certificate completion. However, courses may be offered or taken in other semesters as long as prerequisites are met. Courses may be available days, nights, hybrid, and online. \*Please refer to your STARS guide or transfer institution for specific course requirements.

|                   | Course #        | Course Name  | Semester Hours       |
|-------------------|-----------------|--|----------------------|
| <b>Semester 1</b> | ENG101          | English Composition I  | 3                    |
|                   | MTH125          | Calculus I   | 4                    |
|                   | History         | <b>Choose a sequence in history:</b><br>HIS101 (Western Civilization) OR<br>HIS121 (World History) OR<br>HIS201 (US History)                                 | 3                    |
|                   | Fine Arts       | MUS101 (Music Appreciation) OR<br>ART100 (Art Appreciation) OR<br>THR120 (Theatre Appreciation)  | 3                    |
|                   | ORI101          | College Orientation  | 1                    |
|                   |                 |  | Semester 1 Total: 14 |
| <b>Semester 2</b> | ENG102          | English Composition II   | 3                    |
|                   | Natural Science | PHY213 (General Physics with Calculus I)   | 4                    |
|                   | History         | <b>Choose a history course to complete the sequence:</b><br>HIS102 (Western Civilization) OR<br>HIS122 (World History) OR<br>HIS202 (US History)             | 3                    |
|                   | Area V Elective | MTH126 (Calculus II)   | 4                    |
|                   | Area V Elective | CIS146 (Microcomputer Applications)  | 3                    |
|                   |                 |  | Semester 2 Total: 17 |
| <b>Semester 3</b> | Literature      | <b>Choose a literature:</b><br>ENG251 or ENG252 (American Literature) OR<br>ENG261 or ENG 262 (English Literature) OR<br>ENG271 or ENG272 (World Literature) | 3                    |
|                   | Natural Science | PHY214 (General Physics with Calculus II)  | 4                    |
|                   | Area V Elective | MTH227 Calculus III  | 4                    |
|                   | Area V Elective | CIS251 (C++ Programming)   | 3                    |
|                   |                 |  | Semester 3 Total: 14 |

|                   |                  |   |                      |
|-------------------|------------------|---|----------------------|
| <b>Semester 4</b> | Area IV Elective | <b>Choose one: (Please see STARS Guide)</b><br>ECO231 (Principles of Macroeconomics) OR<br>ECO232 (Principles of Microeconomics) OR<br>GEO100 (World Regional Geography) OR<br>POL211 (American National Government) OR<br>PSY200 (General Psychology) OR<br>PSY210 (Human Growth & Development) OR<br>SOC200 (Introduction to Sociology) | 3                    |
|                   | Fine Arts        | SPH106 (Fundamentals of Oral Communication)<br>OR<br>SPH107 (Fundamentals of Public Speaking)   | 3                    |
|                   | Area V Elective  | <b>Choose one: (Please refer to STARS Guide)</b><br>BIO103 (Principles of Biology I) OR<br>CHM111 (College Chemistry I) OR<br>PHS111 (Physical Science I) OR<br>PHY201 (General Physics I)  | 4                    |
|                   | Area V Elective  | <b>Please refer to STARS Guide</b>  | 3                    |
|                   | Area V Elective  | <b>Please refer to STARS Guide</b>  | 3                    |
|                   |                  |   | Semester 4 Total: 16 |
|                   |                  |   | Program Total: 61    |

Links to:

Auburn University: <http://ous.auburn.edu/faculty/area-v/area-v-engineering/engineering-computer-science/>

University of Alabama: <https://eng.ua.edu/admissions/transfer-information/#areaV-cs>