

B.S. Computer Science: Software Systems (with Minor)

This pathway leads from a Computer Science A.S. (TTP) degree from Chattanooga State Community College to a Bachelor of Science degree with a major in Computer Science: Software Systems (with minor) from the University of Tennessee at Chattanooga.

Chattanooga State Community College

| First Year – 27-29 Hours | | | |
|---|------------|--|------------|
| <i>Fall Semester:</i> | Hrs | <i>Spring Semester:</i> | Hrs |
| ENGL 1010: English Composition I | 3 | ENGL 1020: English Composition II* | 3 |
| Math Sequence Course I (MATH 1710, 1720, 1830, 1910, or 1920)*/** | 3-4 | Math Sequence Course II (MATH 1720, 1910, 1920, or 2010)*/** | 3-4 |
| Humanities/Fine Arts to satisfy Gen Ed | 3 | Humanities/Fine Arts to satisfy Gen Ed | 3 |
| History to satisfy Gen Ed | 3 | History to satisfy Gen Ed | 3 |
| | | COMM 2025: Fundamentals of Communication | 3 |
| | 12-13 | | 15-16 |
| Second Year – 31-32 Hours | | | |
| <i>Fall Semester:</i> | Hrs | <i>Spring Semester:</i> | Hrs |
| CISP 1010: Computer Science I* | 4 | CISP 1020: Computer Science II* | 4 |
| Math Sequence Course III (MATH 1910, 1920, or 2010)*/** | 3-4 | CISP 2410: Assembly & Computer Organization | 3 |
| Natural Science to satisfy Gen Ed | 4 | Natural Science to satisfy Gen Ed | 4 |
| Social/Behavioral Science to satisfy Gen Ed | 3 | Social/Behavioral Science to satisfy Gen Ed | 3 |
| Literature to satisfy Gen Ed | 3 | | |
| | 17-18 | | 14 |

* Must earn a C or better grade

**The Computer Science major requires completion of MATH 1910: Calculus I, MATH 1920: Calculus II and MATH 2010: Introduction to Linear Algebra either at the community college or at the university

Students should verify Chattanooga State Community College graduation requirements.

University of Tennessee at Chattanooga

| Third Year – 34-37 Hours | | | |
|--|------------|---|------------|
| <i>Fall Semester:</i> | Hrs | <i>Spring Semester:</i> | Hrs |
| MATH 2030: Discrete Math for Comp. Science, 3030: Discrete Structures, or 3000: Intro to Logic & Proof | 3 | MATH 2100: Introductory Stats, ENCE 2220: Probability and Stats for Engineering, or MATH 3100: Applied Statistics | 3 |
| CPSC 2100: Software Design and Development | 3 | CPSC 3610: Ethical & Social Issues in Computing | 3 |
| CPSC 2800: Intro to Operating Systems | 3 | CPSC 3200: Algorithm Analysis & Advanced Data | 3 |
| CPEN 3700: Digital Logic & Intro to Computer Hardware | 4 | Approved CPSC or Tech Elective (3000-4000 level)**** | 3 |
| Minor Course | 3 | Minor Course | 3 |
| MATH 2200: Elementary Linear Algebra *** | 0-3 | Minor Course (3000-4000 level) | 3 |
| | 16-19 | | 18 |
| Fourth Year – 35-38 Hours | | | |
| <i>Fall Semester:</i> | Hrs | <i>Spring Semester:</i> | Hrs |
| CPEN 4700: Computer Architecture | 3 | CPSC 4910r: Senior Capstone or 4995r: Thesis | 3 |
| CPSC 4900: Software Engineering | 3 | CPSC 4100: Survey of Programming Languages | 3 |
| Approved CPSC or Tech Elective (3000-4000 level)**** | 3 | Approved CPSC or Tech Elective (3000-4000 level)**** | 3 |
| Minor Course | 3 | Minor Course (3000-4000 level) | 3 |
| Natural Science with Lab Sequence | 4 | Minor Course (3000-4000 level) | 3 |
| Math or Stats Elective (above 1830/1950 or 2100)*** | 0-3 | Natural Science with Lab Sequence | 4 |
| | 16-19 | | 19 |

***Course not required if completed at community college

****If Business minor, then CPSC 1000, CPSC 3220, and CPSC 4270 are required

| Completed: | | | |
|-------------------------------------|--|--|--|
| Graduation Requirements: | | Degree Requirements: | |
| 122 Total Hours | | 30 General Education Hours | |
| 39 Upper Division (3000-4000) Hours | | 76-78 Program (Major) Hours | |
| 30 Hours at UTC | | 18 Minor Hours | |
| 60 Hours at 4-year institution | | 3-9 Elective Hours | |
| | | Foreign Language Hours <i>(Not Required)</i> | |

This Transfer Path is a supplemental resource only. Students should consult their catalog year for official lists of general education courses, program requirements, pre-requisites, and co-requisites.