



Bachelor of Science – Computer Science

Catalog Year: 2024 – 2025

Degree: BS

Major: Computer Science

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and a department's tentative plans for scheduling courses. This document provides general direction.

Roane State Community College

Freshman Year – Fall Semester

Course Title	Cr	✓
ENGL 1010 – Composition I	3	
MATH 1910 – Calculus I	4	
CISP 1010 – Computer Science Programming	4	
HIST 2010 – Early U.S. History	3	
COLS 1010 – Study, Organize, Succeed	3	
Total	17	

Freshman Year – Spring Semester

Course Title	Cr	✓
ENGL 1020 – Composition II	3	
MATH 1920 – Calculus II	4	
HIST 2020 – Modern U.S. History	3	
Social/Behavioral Science	3	
CISP 1020 – Computer Science II	4	
Total	17	

Sophomore Year – Fall Semester

Course Title	Cr	✓
Literature ¹	3	
Science Sequence ²	4	
MATH 2010 – Intro to Linear Algebra	3	
Humanities/Fine Arts Elective	3	
Total	13	

Sophomore Year – Spring Semester

Course Title	Cr	✓
COMM 2025 – Fundamentals of Communication	3	
Science Sequence ²	4	
Social/Behavioral Science	3	
Humanities/Fine Arts Elective	3	
Total	13	

Tennessee Technological University

Junior Year – Fall Semester

Course Title	Cr	✓
MATH 3070 - Statistical Methods I or MATH 3470 - Intro/Prob & Stats	3	
CSC 2310 – Object Oriented Programming/Dsgn	4	
CSC 2400 – Design of Algorithms	3	
CSC 2510 – Intro to DevOps with Unix	3	
CSC 2700 – Discrete Structure for Comp Sci	3	
Total	16	

Junior Year – Spring Semester

Course Title	Cr	✓
CSC 3040 – Prfess, Comm, and Research	3	
CSC 3410 – Comp Org and Assembly Lang Prog	3	
CSC 3300 – Database Management Sys	3	
CSC 3710 – Found of Comp Science	3	
CSC Lower Division Elective ⁴	3	
Total	15	

Senior Year – Fall Semester

Course Title	Cr	✓
CSC 4100 – Operating Systems	3	
CSC 4610 – Software Engineering I	3	
CSC 4320 – Comp Architecture	3	
CSC Lower Division Elective ⁴	3	
CSC Upper Division Elective ³	3	
Total	15	

Senior Year – Spring Semester

Course Title	Cr	✓
CSC 4200 – Comp Networks	3	
CSC 4615 – Software Engineering II	2	
CSC Upper Division Elective ³	3	
CSC Upper Division Elective ³	3	
Elective	3	
Total	14	

Red color listed courses are taken at Roane State

Purple color listed courses are taken at TTU

Notes:

¹ English Literature: ENGL 2110, ENGL 2120, ENGL 2210, ENGL 2220, ENGL 2310, or ENGL 2320.

² Science: Take one science sequence.

- BIOL 1110 and BIOL 1120 OR
- CHEM 1110 and CHEM 1120 OR
- PHYS 2010 and PHYS 2020 OR
- PHYS 2110 and PHYS 2120

³ CSC Upper-Division Electives: Any additional 3000 or 4000 level CSC course except CSC 4990

⁴ CSC Lower-Division Electives: Two of the three Concentration gateway courses (Cyber, DS-AI, HPC: CSC 2220, CSC 2570, CSC 2770).