UTC Transfer Pathway **2022-2023**

B.S.Cp.E. Computer Engineering

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

Chattanooga State Community College

First Year – 29 Hours			
Fall Semester:	**Hrs**	*Spring Semester:*	**Hrs**
ENGL 1010: English Composition I	3	ENGL 1020: English Composition II*	3
Math Sequence Course I (MATH 1910: Calculus I)*/**	4	Math Sequence Course II (MATH I920: Calculus II)*/**	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
	13		16
Second Year – 31 Hours			
Fall Semester:	**Hrs**	*Spring Semester:*	**Hrs**
CISP 1010: Computer Science I*	4	CISP 1020: Computer Science II*	4
Math Sequence Course III (MATH 2010: Introduction to Linear Algebra)*/**	3	CISP 2410: Assembly & Computer Organization	3
Natural Science to satisfy Gen Ed (PHYS 2110)***	4	Natural Science to satisfy Gen Ed (PHYS 2120)***	4
ECON 2100: Principles of Macroeconomics***	3	ECON 2200: Principles of Microeconomics***	3
Literature to satisfy Gen Ed	3		
	17		14

* Must earn a C or better grade

**The Computer Engineering major requires completion of MATH 1910: Calculus I, MATH I920: Calculus II and MATH 2010: Introduction to Linear Algebra either at the community college or at the university

***Students should enroll in Macroeconomics and Microeconomics for the Social/Behavioral Science and Calculus-based Physics I & II for the Natural Science general education requirements

Students should verify Chattanooga State Community College graduation requirements.

University of Tennessee at Chattanooga

Third Year – 37 Hours			
Fall Semester:	**Hrs**	*Spring Semester:*	**Hrs**
ENME 1030/1030L: Basic Engineering Science/Lab	4	ENCE 1040: Vector Statics	3
ENME 1850: Intro to Engineering Design	2	ENME 1011: Intro to 2 & 3 Dimensional Modeling	1
MATH 2450: Intro to Differential/Difference Equations	3	ENCE 3520: Engineering Economy (or ENIE 3520 Project & Economic Engineering)	3
ENCE 2220: Probability & Stats for Engineering	3	CPSC 2100: Software Design & Development	3
CPEN 3700: Digital Logic & Intro to Comp. Hardware	4	ENEE 2720: Electrical Circuits II	3
ENEE 2700/2710L: Electrical Circuits I/Lab	4	ENEE 3250: Signals & Systems	3
		MATH 2560: Calculus w/ Analytic Geometry III	4
	20		20
Fourth Year – 34 Hours			
Fall Semester:	**Hrs**	*Spring Semester:*	**Hrs**
CPEN 3850: Interdisciplinary Design Project I	3	CPEN 4850: Interdisciplinary Design Project II****	3
ENEE 3720/3720L: Analog Electronics/Lab	4	CPSC 2800: Intro to Operating Systems	3
MATH 2030: Discrete Math for Computer Science	3	CPSC 3200: Algorithm Analysis & Adv. Data Structure	3
CPSC 3610: Ethical & Social Issues in Computing	3	ENEE 3790: Modern Control Systems Analysis & Design	3
CPEN 4700: Computer Architecture	3	CPSC or CPEN or ENEE Elective (3000-4000 level)	3
	16		15
Fifth Year – 17 Hours			
CHEM 1110/1110L: General Chemistry I	4		
CPEN 3710: Computer System Organization & Assembly Language Programming	4		
CPEN 4710: Adv. Comp. Systems, 4720: Embedded Microcontroller Systems or ENEE 4710: Embedded Systems	3		
CPSC 4550: Computer Networks	3		
CPSC or CPEN or ENEE Elective (3000-4000 level)	3		
	17		

****Qualified students may substitute CPEN 4995r or ENGR 4995r: Departmental Thesis

Completed:			
Graduation Requirements:		**Degree Requirements:**	
148 Total Hours		30 General Education Hours	
39 Upper Division (3000-4000) Hours		111 Program (Major) Hours	
30 Hours at UTC		Minor *(Not Required)*	
60 Hours at 4-year institution		7 Elective Hours	
		Foreign Language Hours *(Not Required)*	

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.