

Part II – Program of Study

University of Tennessee at Chattanooga And Columbia State Community College

A.A.S. in Engineering Systems Technology to B.S. in Mechatronics Engineering Technology

Common Coursework for UTC and Columbia State:

General Education & Electives	Course	Credit Hours
Communication - 6 hours	ENGL 1010 English Composition I COMM 2025 Fundamentals of Communications	6
Humanities /Fine Arts – 3 hours	ART 1035 Introduction to Art ENGL 2130 Topics in American Literature ENGL 2235 Topics in British Literature HUM 1010 Early Humanities HUM1020 Modern Humanities MUS 1030 Introduction to Music PHIL 1030 Introduction to Philosophy PHIL 1040 Introduction to Ethics PHIL 2200 Introduction to World Religions THEA 1030 Introduction to Theatre	3
Social/ Behavioral. Sciences – 3 hours	ECON 2100 Principles of Macroeconomics ECON 2200 Principles of Microeconomics GEOG 2010 World Regional Geography PHED 2120 Essential Lifetime Wellness POLS 1010 Intro to Political Science POLS 1030 American Government POLS 2025 State and Local Government PSYC 1030 Introduction to Psychology PSYC 2130 Life Span Psychology SOC1 1010 Introduction to Sociology SOC1 1040 Social Problems SOC1 2010 Marriage and Family	3
Natural Sciences – 4 hours	PHYS 2010 (sub for PSCI 1030) Non-Calculus	4
Math – 3 hours	MATH 1530 Introductory Statistics	3
Information Systems – 3 hours	INFS 1010 – Computer Applications	3
COLS 101 Columbia State College Success		1
TOTAL		23

Articulated course work:

Columbia State	UTC	Hours towards B.S. Mechatronics
EETC 1311 Electric Circuits (3)	TEHNICAL ELECTIVE	3
ENST 1350 Industrial Safety (3)	ETCM 2010	3
ENST 1370 Manufacturing Processes	TEHNICAL ELECTIVE	3
ENST 2333 Industrial Electronic Controls (3)	TEHNICAL ELECTIVE	3
ENST 2361 Fluid Power Systems (3)	TEHNICAL ELECTIVE	3
ENST 1360 Mechanical Power Transmission (3)	TEHNICAL ELECTIVE	3
EETC 2361 Instrumentation Technology (3)	TEHNICAL ELECTIVE	3

EETC 2332 PLC II (3)	TEHNICAL ELECTIVE	3
EETC 2350 Integrated Robotics	TEHNICAL ELECTIVE	3
ENST 2382 Fundamentals of Mechatronics (3)	TEHNICAL ELECTIVE	3
ENST 1311 Computer Aided Design I (3)	IARC 3090 (3)	3
EETC 2311 Power Technology or ENST 2399	TEHNICAL ELECTIVE	3
ENST 2391 Internship	ETEM 4500	3
EST AAS Hours: 39		39

Total A.A.S in EST hours that will transfer to Bachelor's in Mechatronics Engineering: 62

Suggested UTC course sequence:

Semester 1 - UTC (Summer)	Semester 2 - UTC (Fall)	Semester 3 - UTC (Spring)
ENGL 1020 (3)	ETEM 1320 (3)	PHYS 1040 (4)
	IARC 1100 (3)	ENCE 3520 (3)
	ETME 2100 (3)	ETME 3010 (3)
	MATH 1950 (4)	ETME 2330 (3)
	HUM/FA (3)	ETME 3110 (3)
3 credits	16 credits	16 credits
Semester 4 - UTC (Fall)	Semester 5 - UTC (Spring)	
ETEM 3550 (3)	Non-Western Cultures (3)	
ETEM 4590 (3)	ETME 3210 (3)	
ETME 3120 (3)	ETME 4130 (3)	
ETME 4110 (3)	ETME 4210 (3)	
ETME 4120 (3)	ETME 4220 (3)	
15 credits	15 credits	
TOTAL HOURS at UTC: 65		

TOTAL: 127

MECHATRONICS ENGINEERING TECHNOLOGY CSCC/MTSU ACADEMIC MAP

FIRST YEAR FALL at CSCC				FIRST YEAR SPRING at CSCC			
UTC		CSCC		UTC		CSCC	
Tech Elective	EETC 1311	Electrical Circuit I	3	Tech Elective	EETC 2333	Industrial Electric Control	3
ETCM 2010	ENST 1350	Industrial Safety	3	Tech Elective	ENST 2361	Fluid Power Systems	3
Tech Elective	ENST 1370	Manufacturing Processes	3	Tech Elective	ENST 1360	Mechanical Power Transmission	3
ENGL 1010	ENGL 1010	English Composition I	3	Tech Elective	COMM 2025	Fundamentals of Communication	3
	COL 101	College Success	1	MATH 2100	MATH 1530	Introductory Statistics	3
TOTAL			13	TOTAL			15
SUMMER at CSCC							
ECON 2100		Social Sciences	3				
		Humanities/Fine Arts	3				
TOTAL			6				
SECOND YEAR FALL at CSCC				SECOND YEAR SPRING at CSCC			
Tech Elective	EETC 2361	Instrumentation Technology	3	Tech Elective	ENST 2382	Fundamentals of Mechatronics	3
Tech Elective	EETC 2332	PLC II	3	IARC 3090	ENST 1311	Computer Aided Design	3
Tech Elective	EETC 2350	Integrated Robotics	3	Tech Elective	EETC 2311	Power Technology	3
	INFS 1010	Computer Applications	3	ETEM 4500	ENST 2391	Internship	3
	PHYS 2010	Physics I (Non Calculus)	4				
TOTAL			16	TOTAL			12
SUMMER at UTC							
ENGL 1020	ENGL 1020	English Composition II	3				
TOTAL			3				
THIRD YEAR FALL at UTC				THIRD YEAR SPRING at UTC			
UTC		UTC		UTC		UTC	
ETEM 1320			3	PHYS 1040			4
IARC 1100			3	ENCE 3520			3
ETME 2100			3	ETME 3010			3
MATH 1950			4	ETME 2330			3
Humanities/Fine Arts			3	ETME 3110			3
TOTAL			16	TOTAL			16
FORTH YEAR FALL at UTC				FORTH YEAR SPRING at UTC			
ETEM 3550			3	Non-Western Cultures - See approved list			3
ETEM 4590			3	ETME 3210			3
ETME 3120			3	ETME 4130			3
ETME 4110			3	ETME 4210			3
ETME 4120			3	ETME 4220			3
TOTAL			15	TOTAL			15
TOTAL AAS at CSCC:			62	TOTAL TRANSFER to UTC:			62
TOTAL COURSES at CSCC:			62	TOTAL COURSES at UTC:			65
TOTAL TOWARD BS DEGREE:				127			
TOTAL CREDITS TAKEN AT CSCC AND UTC:				127			

May 2019