School of Advanced Manufacturing Programs

Bachelor of Applied Science in Mechatronics Engineering Technology & Automation Program Map 2023-2024

Student Name: (First, Last)	Student EMPL #:	Date:

Total Units: 94	Total Cost: www.cptc.edu/feelists	Target Start Date:	Target Grad. Date:	Staff Initials:

Important Information

Program Enrollment Requirements: Students must apply and be accepted into the BAS-META Program. See college website for complete application requirements: https://www.cptc.edu/programs/basmeta

Program Starts: Fall Term and Spring Term or by instructor permission

Graduation Requirements: Students must earn a minimum grade of 2.3 in all coursework to complete the degree

Pre-requisites required prior to Admission to the BAS-META program

An articulated Mechatronics Associates degree, including CPTC's Mechatronics AAS-T or an earned Applied Associated degree, AAS-T, Direct Transfer Associate degree or equivalent in an outside discipline from a regionally accredited instruction and completion of the Mechatronics Technical Bridge courses (MEC 120, MEC 201 *and* MEC 202)

A minimum grade of 2.0 is required in the following 5 credit transferable General Education Coursework:

BAS-META Required General Education Courses

Discipline	Course	Typically Offered	Units	
Communication	ENGL& 101 English Composition	Every Term	5	
	Any English or Communication Course	Every Term	5	
Quantitative/Symbolic Reasoning	MATH& 141 Pre-Calculus I	Every Term	5	
	MATH& 142 Pre-Calculus II	Every Term	5	
	MATH& 151 Calculus I	Winter	5	
	MATH& 152 Calculus II	Spring	5	
Humanities	College level Humanities	Every Term	5	
	PHIL 310 Professional Ethics	Win/Sum	5	
Social Science	PSYC& 100 Psychology	Every Term	5	
Science	PHYS& 221 Engineering Physics I	Summer	6	
	PHYS& 222 Engineering Physics II	Fall	6	
Elective	Elective Course (Science, Social Science, Humanities)	Every Term	5	

Program Courses	Units	Status	Total Term Units
Term 1			
MEC 310 Environmentally Sustainable Manufacturing	5		
MEC 330 Programming for Industry 4.0	5		
General Education Course *See list page 1* **Recommend:**	5		15
Term 2			
MEC 300 The Industrial Internet of Things	5		
MEC 320 Fixtures and Workflow	5		
General Education Course *See list page 1* **Recommend:**	5		15
Term 3			
Mechatronics Technical Elective (Chosen from the list below)	5		
General Education Course *See list page 1* **Recommend:**	5		
General Education Course *See list page 1* **Recommend:**	5		15

Term 4				
	Mechatronics Technical Elective (Chosen from the list below)	5		
	Mechatronics Technical Elective (Chosen from the list below)	5		
	General Education Course *See list page 1* **Recommend**	6		**16**
Term 5				
	MEC 450 Mechatronics Project Management Preparation and Planning *(Win/Sum)*	2		
	Mechatronics Technical Elective (Chosen from the list below)	5		
	General Education Course *See list page 1* **Recommend:**	**5**		
	General Education Course *See list page 1* **Recommend**	6		**18**
Quarter 6				
	MEC 490 Project Management *(Fall/Spr)*	5		
	Mechatronics Technical Elective (Chosen from the list below)	5		
	General Education Course *See list page 1* **Recommend:**	**5**		
	General Education Course *See list page 1* **Recommend:**	5		**15**
ELECTIVES				
	MEC 361 Process Control	5		
	MEC 362 Advanced Sensors and Actuators	5		
	MEC 363 AI and Data Analytics	5		
	MEC 381 Automation Evaluation and Implementation	5		
	MEC 382 Machine Vision	5		
	MEC 383 Dynamics of Machinery and Kinematics	5		
	MEC 402 Robotic Integration	5		
	MEC 403 Simulation, Emulation and Digital Twins	5		

*Status Key: **X**=Completed course, **TR**= Transferred course, **IP**= In Progress   **Note:** Unit=Credit*

Individualized Program Map			
Class:	Class:	Class:	Class:
Class:	Class:	Class:	Class:
Class:	Class:	Class:	Class:
Class:	Class:	Class:	Class:
Class:	Class:	Class:	Class:
Class:	Class:	Class:	Class:

Program Counselor: Taylor McGovern **email:** taylor.mcgovern@cptc.edu

Transferring Course Work into CPTC: www.cptc.edu/transfer-to

Graduation Application: www.cptc.edu/enrollment-services >Transcripts & Graduation >Degree/Certificate Application. Graduation Ceremony Information (Commencement) > Graduation Info

Career Outlook sites: www.onetonline.org   www.worksourcewa.com

Notes: