



4500 Steilacoom Blvd SW, Lakewood, WA 98499 253.589.5800 www.cptc.edu/Educational Plans

SCHOOL OF
Advanced Manufacturing

BAS in Mechatronics Engineering Technology and Automation
BAS Degree

Degree	94
Total Credits	
Total Cost	Tuition & Fees

Targeted Start Date	
Expected Graduation Date	

ENTRY COORDINATOR	
STUDENT NAME	
FACULTY NAME	Jason Sawatzki or Carl Wenngren
CONTACT INFO	jason.sawatzki@cptc.edu or carl.wenngren@cptc.edu
PROGRAM COUNSELOR	Taylor McGovern
CONTACT INFO	taylor.mcgovern@cptc.edu
START DATE	
PROGRAM START QUARTER	Fall

Important Program Information	
* BAS-META Program entry requires a Mechatronics AAS-T from CPTC or a Mechatronics AA degree from another institution with an articulation agreement with CPTC or an AA degree and successful completion of the following 15 credits of CPTC bridge program.	
MEC 120 Computer-Aided Design I	5 credits
MEC 201 Systems Approach	5 credits
MEC 202 Total Mechatronics	5 credits
* 5 college-level credits in English Composition (ENGL& 101 or higher).	
* 5 college-level credits of MATH& 141 or equivalent pre-calculus course.	
* A minimum grade of 2.0 is required in all general education coursework. A minimum GPA of 2.3 is required of all coursework in the transferring Associates degree.	

Quarter 1	Fall	
Course Number	Course Title	CR
MEC 310	Environmentally Sustainable Manufacturing	5
MEC 330	Programming for Industry 4.0	5
MATH& 142	Pre-calculus II, Functional Trigonometry	5
Total Credits		15

Quarter 2	Winter	
Course Number	Course Title	CR
MEC 300	The Industrial Internet of Things	5
MEC 320	Fixtures and Workflow	5
MATH& 151	Calculus I	5
Total Credits		15

Quarter 3	Spring	
Course Number	Course Title	CR
	Mechatronics technical elective (choose from list)	5
MATH& 152	Calculus II	5
ENGL& 235	Technical Writing	5
Total Credits		15

Quarter 4	Fall	
Course Number	Course Title	CR
	Mechatronics technical elective (choose from list)	5
PHYS& 221	Engineering Physics I	6
PSYC 311	Industrial & Organizational Psychology	5
Total Credits		16

Quarter 5	Winter	
Course Number	Course Title	CR
	Mechatronics technical elective (choose from list)	5
PHYS& 222	Engineering Physics II	6
PHIL 310	Professional Ethics	5
MEC 450	Mechatronics Project Management Preparation and Planning	2
Total Credits		18

Quarter 6	Spring	
Course Number	Course Title	CR
MEC 490 ^{CAP}	Mechatronics Project Management	5
	Mechatronics technical elective (choose from list)	5
	Any college level humanities class	5
Total Credits		15

Mechatronics Elective Options (must choose 20 credits)		
Course Number	Course Title	CR
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
Total Credits		

Mechatronics Elective Options (must choose 20 credits)		
Course Number	Course Title	CR
MEC 382	Machine Vision	5
MEC 383	Dynamics of Machinery and Kinematics	5
MEC 402	Robotic Integration	5
MEC403	Simulaton, Emulation and Digital Twins	5
Total Credits		

Required Gen Ed courses		
Prerequisites		
COLL 102 College Success for All	3	
ENGL& 101 English Composition	5	
MATH& 141 Pre-Calculus I	5	
Junior Year Standing		
Social Science that meet diversity requirement	5	
Any transferable college-level Social Science, Science, or Humanities	5	
BAS Requirements		
ENGL& 235 Technical Writing	5	
MATH& 142 Pre-Calculus II	5	
MATH & 151 Calculus I	5	
MATH & 152 Calculus II	5	
PHIL 310 Professional Ethics	5	
PHYS& 221 Engineering Physics I	6	
PHYS& 222 Engineering Physics II	6	
PSYC 311 Industrial & Organizational Psychology	5	
* Any college level humanities class	5	
Total Gen Ed credits		70

Advising Notes	
Humanities: Transferable 100+ level course in Art, Drama/Theater, Foreign Language/American Sign Language, Literature, History, Philosophy, Speech/Communication Studies (ICRC Handbook).	
CPTC offerings: ART& 100, ASL& 121, ASL& 122, CMST& 220, HUM& 101, MUSC& 105.	

Career Outlook Sites	
The Occupation Information Network O'NET	
worksourcewa.com	

Next Steps (Transcripts & Graduation)	
Apply for Graduation	
Apply for Sealed Official Transcript	

***Please check Periodically with Advising and Counseling regarding any potential Changes to program course requirements.**

Clover Park Technical College does not discriminate on the basis of race, color, national origin, sex, disability, sexual orientation, age or Veteran's status in its program and activities.