

Computer Aided Drafting and Design Robotics & Automation (Updated 5/2021)

CAMPUS
CC

P_AAS_CADE

62

Fall and Spring Start

First Semester: Fall or Spring Start

Course Code	Course Name	Credit Hours	Course Pre-/Co-Req
CAD 100	Print Reading for Computer Aided Drafting	3	
CAD 101	Computer Aided Drafting 1	3	CAD 100 or concurrent
MAT 107 or higher	Career Math or higher Math course	3	College Quantitative Literacy or Co-Req MAT 087
ELT 106	Fundamentals of AC/DC	4	College Quantitative Literacy
ELT 146	Digital Devices in Computers	3	ELT 106 or concurrent enrollment
Total		16	

Second Semester: Spring

Course Code	Course Name	Credit Hours	Course Pre-/Co-Req
CAD 102	Computer Aided Drafting 2	3	CAD 100 and CAD 101
CAD 255	SolidWorks Mechanical (1 st Bi-semester)	3	CAD 100
CAD 259	Advanced SolidWorks (2 nd Bi-semester Recommended Technical Elective)	3	CAD 255
ELT 262 (was ELT 252)	Intro to Microcontrollers (was Motors and Controls)	3	CAD 100 and ELT 106
ELT 267	Intro to Robotics	1	CAD 100, CAD 101, ELT 106, and ELT 146
CIS 118 or CSC 105	Introduction to PC Applications (recommended) or Computer Literacy	3	
Total		16	

Third Semester: Fall

Course Code	Course Name	Credit Hours	Course Pre-/Co-Req
CAD 153	Intro to Creo Basics	3	CAD 101
EGT 103	Applied Dimensions and Tolerances	3	CAD 100, CAD 101, and CAD 102 or concurrent
ELT 165	Electronic Assembly	3	
ELT 268	Robotics Technology	3	CAD 100, ELT 106, and ELT 267
ENG 131 or higher	Technical Writing or higher ENG	3	College Reading & Writing Literacy or Co-Req ENG 077 or Co-req CCR 094 (for ENG 121)
Total		15	

Fourth Semester: Spring

Course Code	Course Name	Credit Hours	Course Pre-/Co-Req
BUS 115 or COM 125 or PSY 100	Introduction to Business or Interpersonal Communication or Psychology of Workplace Relationships	3	College Reading & Writing Literacy
COM 225	Organizational Communication	3	College Reading & Writing Literacy
EGT 210	Mechanical Drafting III	3	CAD 255, CAD 259 and EGT 103
ELT 258	Programmable Logic Controllers	3	CAD 100, ELT 106, ELT 146, and ELT 262
ELT 252 (was ELT 266)	Motors & Controls (Advanced Electronic Assembly)	3	ELT 262, ELT 267, and ELT 268
Total		15	

*Consult with faculty advisor for appropriate technical elective.

Department Chair: Michele Koster michele.koster@ppcc.edu Phone (719) 502-3245

It is highly recommended you meet with your Department Advisor. Contact advisor via email to set up advising appointment.