

Computer Aided Drafting and Design Robotics & Automation (Fall 2022)

P_AAS_CADE

62

CAMPUS
CC

Fall and Spring Start

First Semester: Fall or Spring Start

Course Code New # (Old #)	Course Name	Credit Hours	Course Pre-/Co-Req
CAD 1100 (100)	Print Reading for Computer Aided Drafting	3	
CAD 1101 (101)	Computer Aided Drafting 1	3	CAD 1100 (100) or concurrent
MAT 1140 (107) or higher	Career Math or higher MAT course	3	College Quantitative Literacy or Co-Req MAT 0140 (087)
ELT 1206 (106)	Fundamentals of AC/DC	4	College Quantitative Literacy (see above)
ELT 1246 (146)	Digital Devices in Computers	3	ELT 1206 (106) or concurrent enrollment
		Total	16

Second Semester: Spring

Course Code New # (Old #)	Course Name	Credit Hours	Course Pre-/Co-Req
CAD 1102 (102)	Computer Aided Drafting 2	3	CAD 1100 (1100) & CAD 1101 (101)
CAD 2455 (255)	SolidWorks Mechanical (1 st Bi-semester)	3	CAD 1100 (100)
CAD 2456 (259)	Advanced SolidWorks (2 nd Bi-semester; *Recommended Technical Elective)	3	CAD 2455 (255)
ELT 2362 (262)	Intro to Microcontrollers	3	CAD 1100 (100), ELT 1206 (106), & ELT 1246 (146)
ELT 2367 (267)	Intro to Robotics	1	CAD 1100 (100), CAD 1101 (101), ELT 1206 (106), & ELT 1246 (146)
ELT 1004 (165) **	Electronic Assembly-	3	**Instead of CIS 1018 (118) or CSC 1005 (105)
		Total	12

Third Semester: Fall

Course Code New # (Old #)	Course Name	Credit Hours	Course Pre-/Co-Req
CAD 2458 (153)	Intro to Creo Basics	3	CAD 1101 (101)
EGT 2303 (103)	Applied Dimensions and Tolerances	3	CAD 1100 (100), CAD 1101 (101), & CAD 1102 (102)
ELT 1004 (165) */**	Electronic Assembly	3	*If Spring cancels take here M 8:00-12:05
ELT 2368 (268)	Robotics Technology	3	ELT 2367 (267)
ELT 2357 (257)	Sensors and Transducers	3	ELT 2362 (262)
		Total	12 or 15*

Fourth Semester: Spring

Course Code New # (Old #)	Course Name	Credit Hours	Course Pre-/Co-Req
BUS 1015 (115) or COM 1250 (125) or PSY 1005 (100)	Introduction to Business or Interpersonal Communication or Psychology of Workplace Relationships	3	College Reading & Writing Literacy (see above)
COM 2250 (225)	Organizational Communication	3	College Reading & Writing Literacy (see above)
EGT 2310 (210)	Mechanical Drafting III	3	CAD 2455 (255), CAD 2456 (259), & EGT 2303 (103)
ELT 2358 (258)	Programmable Logic Controllers	3	CAD 1100 (100), ELT 1206 (106), ELT 1246 (146), & ELT 2362 (262)
ENG 1020 (131) or higher	Technical Writing or higher ENG course	3	College Reading & Writing Literacy or Co-Req ENG 0077 (077) or Co-req CCR 0094 (094) for ENG 1021 (121)
		Total	15

*Consult with faculty advisor for appropriate technical elective.

Department Chair: Michele Koster Email- Preferred: 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.