

Computer Aided Drafting and Design – Mechanical (Fall 2024)

P_AAS_CADM

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CAMPUS
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First Semester: Fall

Course Code	Course Name	Credit Hours	Course Pre-/Co-Req
EGT 1100	Print Reading	3	
EGT 1101	Mechanical Design I	3	EGT 1100 or concurrent
CIS 1018 or CSC 1005	Introduction to PC Applications (recommended) or Computer Literacy	3	
MAC 1000	Machine Shop Safety	1	
MAC 1001	Introduction to Machine Shop	3	MAC 1000 or concurrent enrollment
MTE 1130	Metrology	3	
		Total	16

Second Semester: Spring

Course Code	Course Name	Credit Hours	Course Pre-/Co-Req
EGT 1102 or CAD 1102	Mechanical Design II	3	EGT 1100 & EGT 1101 or CAD 1100 & CAD 1101
CAD 2455	SolidWorks Mechanical (1 st Bi-semester)	3	CAD 1100 or EGT 1100
CAD 2456	Advanced SolidWorks (2 nd Bi-semester; *Recommended Technical Elective)	3	CAD 2455
ENG 1020 or higher	Technical Writing or higher ENG course GT-CO1	3	College Reading & Writing Literacy or Co- Req ENG 0077 or Co-req CCR 0094 for ENG 1021
MAT 1140 or higher	Career Math or higher MAT course	3	College Quantitative Literacy or Co-Req MAT 0140
		Total	15

Third Semester: Fall

Course Code	Course Name	Credit Hours	Course Pre-/Co-Req
CAD 2458	Intro to Creo Basics	3	EGT 1101 or CAD 1101
CAD 2660	3D Printing (*Recommended Technical Elective)	3	CAD 2455 and CAD 2456
EGT 2303	Applied Dimensions and Tolerances	3	EGT 1100, EGT 1101, & EGT 1102 or CAD 1100, CAD 1101, & CAD 1102
EGT 2305		3	CAD 1100 or EGT 1100 or MAC 1002, and EGT 2303
COM 2250	Organizational Communication	3	College Reading & Writing Literacy (see above)
		Total	15

Fourth Semester: Spring

Course Code	Course Name	Credit Hours	Course Pre-/Co-Req
CAD 2459	Creo Advanced (*Recommended Technical Elective)	3	CAD 2458
BUS 1015 or COM 1250 or PSY 1005	Introduction to Business or Interpersonal Communication or Psychology of Workplace Relationships	3	College Reading & Writing Literacy (see above)
EGT 2310	Mechanical Drafting III	3	CAD 2455, CAD 2456, and EGT 2303
CAD 2661	Advanced 3D Printing	3	CAD 2660
MTE 2330	Strength of Materials	3	CAD 2455, EGT 2303, and MAT 1140 or higher
		Total	15

Contact Advising: Annie Landis: Annie.landis@pikespeak.edu

Interim Department Chair: michele.koster@pikespeak.edu

*Consult with faculty advisor for appropriate technical elective.

Unforeseen events could impact the offering of a particular course; however, we will make every effort to assure the least negative impact on students should a change in a rotation be required.