

Summer 2024 Schedule (2024-2025 Curriculum)

CBE On Campus: Flexible lab/class instruction where you complete assessments at a personalized pace.

Lab availability: Tuesday & Wednesday 8 am - 8 pm

Room N109

* 194441 Mastercam Programming Certificate

● 614201 Introduction to Precision Machining

● 314201 Precision Machining Technology

324441 CNC Automation Technician (all courses)

Course Title	Credit Value	Catalog Number		
			6/3-8/1	7/8-8/1
Term 1				
Shop Tools and Fasteners	1	31420310	40291	40297
● Precision Measuring	1	31420330	40292	40298
● Orthographic Projection Print	1	31420385	40309	40317
● Machining Math Basic	1	31420325	40293	40299
● Drills and Saws	1	31420338	40294	40300
● Manual Lathe Operation	1	31420340	40295	40301
● Manual Mill Operation	1	31420350	40303	40304
□ GD&T Intro	1	31420386	40310	40318
□ Machining Geometry and Basic Trigonometry	1	31420326	40296	40302
● G&M Code Programming	1	31444301	40243	40244
□ CNC Machining Operation	1	31444303	40245	40246
□ CNC Turning Operation	1	31444309	40247	40253
□ Heat Treat and Precision Grinding	1	31420359	40311	40319
□ Total	13			
Term 2				
□ Interpersonal Skills	1	31801361		
□ Workplace Fundamentals	1	31801360		
* □ Mill-2D Using CAM	1	31444307	40248	40254
□ ProtoTrak Mill-Squaring Programming	1	31420353	40305	40308
□ ProtoTrak Mill-Slot and Hole Programming	1	31420354	40306	40307
□ CNC Turning-Turning and Cut Off Setup	1	31444311	40249	40255
□ CNC Turning-Hole Producing Setup/Threading	1	31444313	40250	40256
□ CNC Machining-Facing and End Milling Setup	1	31444315	40251	40257
□ CNC Machining-Hole/Slot/Engraving Setup	1	31444317	40252	40258
* □ CNC Turning 2D Using CAM	1	31444321	40259	40263
□ Complex Print Drawings	1	31420361	40312	40320
□ Advanced Precision Measuring	1	31420362	40313	40321
□ GD&T-Inspection	1	31420363	40314	40322
Total	13			
Term 3				
CNC Machining-Probing/Editing/G&M Code	1	31444323	40260	40264
CNC Machining-Work Holding	1	31444325	40261	40265
CNC Turning-Program Editing	1	31444327	40262	40266
CNC Machining-Setup/Operation with G&M Code	1	31444333	40267	40268
CNC Turning-Setup and Operation	1	31444357	40269	40279
ProtoTrak Mill Programming	1	31420364	40315	40323
ProtoTrak Lathe Programming	1	31420365	40316	40324
* CNC Machining-G&M Programming Using CAM	1	31444339	40271	40281
* CNC Machining-Setup/Operation Using CAM	1	31444341	40272	40282
SolidWorks 1- Parametric Modeling	2	10606108		
Product Design & Rapid Prototyping	1	10606102		
HSM for SolidWorks	1	31444347	40270	40280
Total	13			
Term 4				
CNC Technician Internship	2	32444343	40288	40290
* CNC Turning-G&M Code Programming Using CAM	1	31444343	40273	40283
* CNC Turning-Setup and Operation Using CAM	1	31444345	40274	40284
CNC Turning with Live Tooling-Operation	1	31444349	40275	40285
CNC Turning with Live Tooling-Programming	1	31444351	40276	40286
CNC Turning w/Live Tooling-Adv Programming	1	31444353	40277	40278
CNC Skills Portfolio	1	32444306	40287	40289
Wire EDM Operation	1	31444359	40337	40338
Wire EDM Program/Operate	1	31444371	40339	40340
Robotics-Teach Pendant/Controls	1	10620167		
Robotics-Editing Programs	1	10620179		
Multi Axis Mill-Set up and Operation	1	32444355	41131	41332
Multi Axis Mill- Programming	1	32444357	41133	41134
Multi Axis Mill- Advanced Programming	1	32444359	41135	41136
	15			
Program Total	54			