

**Fall 2024 Schedule (2024-2025 Curriculum)**

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

**Lab availability: Monday, Tuesday, & Wednesday 8 am - 8 pm, Thursday 8 am - 4 pm**

**Room N109**

\* 194441 Mastercam Programming Certificate

● 614201 Introduction to Precision Machining

● □ 314201 Precision Machining Technology

**324441 CNC Automation Technology (all courses)**

Course Title	Credit Value	Catalog Number	w05y	w06y	w07y	w08y
			8/26 - 12/12	9/9 - 12/12	10/14 - 12/12	11/11 - 12/12
<b>Term 1</b>						
• Shop Tools and Fasteners	1	31420310	60470	60472	60473	60474
• Precision Measuring	1	31420330	60478	60480	60481	60482
• Orthographic Projection Print	1	31420385	60518	60528	60529	60530
• Machining Math Basic	1	31420325	60471	60475	60476	60477
• Drills and Saws	1	31420338	60486	60488	60489	60490
• Manual Lathe Operation	1	31420340	60487	60491	60492	60493
• Manual Mill Operation	1	31420350	60494	60495	60496	60497
□ GD&T Intro	1	31420386	60534	60535	60536	60537
□ Machining Geometry and Basic Trigonometry	1	31420326	60479	60483	60484	60485
□ G&M Code Programming	1	31444301	60374	60376	60377	60378
□ CNC Machining Operation	1	31444303	60375	60379	60380	60381
□ CNC Turning Operation	1	31444309	60390	60396	60397	60398
□ Heat Treat & Precision Grinding	1	31420359	60519	60525	60526	60527
<b>Total</b>	<b>13</b>					
<b>Term 2</b>						
□ Interpersonal Skills	1	31801361				
□ Workplace Fundamentals	1	31801360				
* □ Mill-2D Using CAM	1	31444307	60391	60399	60382	60383
□ ProtoTrak Mill-Squaring Programming	1	31420353	60502	60505	60498	60499
□ ProtoTrak Mill-Slot and Hole Programming	1	31420354	60503	60504	60500	60501
□ CNC Turning-Turning and Cut Off Setup	1	31444311	60392	60401	60404	60384
□ CNC Turning-Hole Producing Setup/Threading	1	31444313	60393	60400	60405	60385
□ CNC Machining-Facing and End Milling Setup	1	31444315	60394	60402	60386	60387
□ CNC Machining-Hole/Slot/Engraving Setup	1	31444317	60395	60403	60388	60389
* □ CNC Turning 2D Using CAM	1	31444321	60415	60419	60406	60407
□ Complex Print Drawings	1	31420361	60520	60531	60533	60506
□ Advanced Precision Measuring	1	31420362	60521	60507	60508	60509
□ GD&T-Inspection	1	31420363	60522	60510	60511	60512
<b>Total</b>	<b>13</b>					
<b>Term 3</b>						
CNC Machining-Probing/Editing/G&M Code	1	31444323	60416	60420	60408	60409
CNC Machining-Work Holding	1	31444325	60417	60410	60411	60412
CNC Turning-Program Editing	1	31444327	60418	60421	60413	60414
CNC Machining-Setup/Operation with G&M Code	1	31444333	60425	60422	60423	60424
CNC Turning-Setup and Operation	1	31444357	60452	60461	60426	60427
ProtoTrak Mill Programming	1	31420364	60523	60532	60513	60514
ProtoTrak Lathe Programming	1	31420365	60524	60515	60516	60517
* CNC Machining-G&M Programming Using CAM	1	31444339	60454	60431	60432	60433
* CNC Machining-Setup/Operation Using CAM	1	31444341	60455	60434	60435	60436
SolidWorks 1- Parametric Modeling	2	10606108				
Product Design & Rapid Prototyping	1	10606102				
HSM for SolidWorks	1	31444347	60453	60428	60429	60430
<b>Total</b>	<b>13</b>					
<b>Term 4</b>						
CNC Technician Internship	2	32444343	60469	60465	60466	60467
* CNC Turning-G&M Code Programming Using CAM	1	31444343	60456	60437	60438	60439
CNC Turning-Setup and Operation Using CAM	1	31444345	60457	60440	60441	60442
CNC Turning with Live Tooling-Operation	1	31444349	60458	60443	60444	60445
CNC Turning with Live Tooling-Programming	1	31444351	60459	60446	60447	60448
CNC Turning w/Live Tooling-Adv Programming	1	31444353	60460	60449	60450	60451
CNC Skills Portfolio	1	32444306	60468	60462	60463	60464
Wire EDM Operation	1	31444359	61598	61599	61600	61601
Wire EDM Program/Operate	1	31444371	61602	61603	61604	61605
Robotics-Teach Pendant/Controls	1	10620167				
Robotics-Editing Programs	1	10620179				
Multi Axis Mill-Set up and Operation	1	32444355	64639	64640	64641	64642
Multi Axis Mill- Programming	1	32444357	64643	64644	64645	64646
Multi Axis Mill- Advanced Programming	1	32444359	64647	64648	64649	64650

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Program Total

54