

CNC/Tool & Die Technologies - Academic Planner

Technical Diploma: 32-444-2

Campus: West Bend

Curriculum for 2013-2014

1/18/2013

Program Advisor: _____

Entrance Assessment Scores	ACT	Accuplacer
Assessment Areas		
English/Sentence Skills	15	60
Reading/Reading Comprehension	15	55
Math/Arithmetic	15	34

✓	T/G	Course		Hours / Week			Total Hours	Credits	Prerequisites and/or Corequisites	Typically Offered			Comments			
		Subj	Num	Lec	Lab	Other				S	F	SP				
				Note: Students must purchase tool kits for this program.												
				Term 1:							S	F	SP			
				New Program Students: Attend New Student Orientation and your Priority Registration Session												
			103	159		2		36	1			x	x	x	**Institutional Requirement. May be eligible for Advanced Standing.	
	T		439	301		1	1	36	1				x		Students must possess fundamental computer skills and have experience with Windows Operating System.	
	T		439	303		1	3	72	2	Completion of or concurrent enrollment in 439-301 Introduction to Basic Machining			x			
	T		439	305		1	3	72	2	439-301 Introduction to Basic Machining; 439-303 Basic Machining - Milling			x			
	T		439	399		4		72	2				x			
	T		444	302		1	3	72	2				x		Recommended: 103-189 Microsoft Windows or 103-159 Computer Literacy	
	T		444	333		2		36	1	103-159 Computer Literacy			x			
	T		444	350		2	4	108	3	Completion of or concurrent enrollment in 103-159 Computer Literacy			x			
	G		804	360		3		54	2				x	x		
			890	101		2		36	2				x	x	x	**Institutional Requirement
									18							
												S	F	SP		
	T		439	306		1	3	72	2	439-301 Introduction to Basic Machining				x		
	T		444	310		2		36	1	890-101 College 101				x		
	T		444	311		1	3	72	2					x		
	T		444	340		1	3	72	2	444-350 Basic Programming				x	Working knowledge of CNC programming language is desired.	
	T		444	342		1	3	72	2	103-159 Computer Literacy; 444-340 Beginning CAM - Mastercam				x		
	T		444	346		1	3	72	2	444-340 Beginning CAM - Mastercam				x	Experience with 2D desirable	
	T		444	355		2	2	72	2	103-159 Computer Literacy				x	Working knowledge of CNC Programming and CAM is helpful.	
	T		444	365		2	2	72	2	444-350 Basic Programming				x		
	T		444	365		2	2	72	2	444-355 CNC Machining Center Programming				x		
	G		804	361		3		54	2	804-360 Occupational Mathematics 1				x		
									17							

✓	Course			Title	Hours / Week			Total Hours	Credits	Prerequisites and/or Corequisites	Typically Offered			Comments
	T/G	Subj	Num		Lec	Lab	Other				S	F	SP	
Term 3:											S	F	SP	
	T	439	324	Pierce and Die Making	2	4		108	3	439-305 Basic Machining – Drilling and Grinding; 439-306 Basic Machining – Turning; 444-342 Advanced CAM 2D; 444-365 CNC Machining Center Operation		x		
	T	439	329	Compound Die Making*	2	4		108	3	439-324 Pierce and Die Making		x		
	T	444	312	Product Engineering - Lean Manufacturing		2		36	1			x		Restricted to program students. It is recommended that students take 444-313 Product Manufacturing the semester after completing this course.
	T	444	343	Beginning CAM 3D	1	3		72	2	444-342 Advanced CAM 2D		x		
	T	444	344	Advanced CAM 3D	1	3		72	2	444-343 Beginning CAM 3D		x		
	T	444	375	Turning Center Operation	2	2		72	2	444-385 Turning Center Programming		x		
	T	444	385	Turning Center Programming	2	2		72	2	444-350 Basic Programming		x		
	G	804	362	Occupational Mathematics 3	3			54	2	804-361 Occupational Mathematics 2		x		
				Total 3rd Term Credits					17					
Term 4:											S	F	SP	
				Apply for Graduation (which includes a \$30 graduation fee)										
	T	439	334	Single Cavity Mold Making	2	4		108	3	439-305 Basic Machining – Drilling and Grinding; 439-306 Basic Machining – Turning			x	
	T	439	339	Multi Cavity Mold Making*	2	4		108	3	439-334 Single Cavity Mold Making			x	
	T	444	313	Product Manufacturing		4		72	2	444-312 Product Engineering - Lean Manufacturing		x		Restricted to program students. It is recommended that students take this course the semester after taking 444-312 Project Engineering - Lean Manufacturing.
	T	444	386	Advanced Machining Center*	2	2		72	2	444-355 CNC Machining Center Programming		x		
	T	444	391	Coordinate Measuring Machine	2	4		108	3	439-399 2D AutoCAD Mold & Die Print Reading; 804-361 Occupational Math 2			x	
	T	444	394	Advanced Turning Center*	2	2		72	2	444-385 Turning Center Programming			x	
	G	801	310	Occupational Communication	3			54	2			x	x	
				Total 4th Term Credits					17					
				Total Program Credits and Institutional Requirements					69					
				**The credits for 103-159 Computer Literacy-Microsoft Office and 890-101 College 101 are Institutional Requirements for graduation. Consequently, they are not part of the program credit requirements.										
				*Capstone Projects are the exit assessment graduation requirement for the program.										

T/G: T - Technical Studies course; G - General Studies course

Semester Codes: S-Summer; F-Fall; SP-Spring

Curriculum and program acceptance requirements are subject to change.

If Student Success Center or General College courses (ie: 831-103 Intro to College Writing, 838-104 Intro to College Reading, 834-109 Pre-Algebra) are required based on college placement; or if the student elects part-time enrollment, the time required to complete the program will increase.

For a complete list of course descriptions for this program, please consult the College Catalog at <http://www.morainepark.edu/MPTCCatalog>.