

CNC/Tool and Die Technologies - Academic Planner

Technical Diploma: 32-444-2 Campus: West Bend Curriculum for 2016-2017

Program Advisor:

Course					Hours / Week					Typically			
/ T/G	i Subj	Num	Title	Lec	Lab	Other	Hours	Credits	Prerequisites and/or Corequisites	Ċ	Offer	ed	Comments
			Note: Students must purchase tool kits for th	is progr	am.								
			Term 1:							S	F	SP	
			New Program Students	Atten	d New	Stude	nt Orier	tation ar	d your Priority Registration Session				
													**Institutional Requirement. May be eligible fo
	103	159	**Computer Literacy - Microsoft Office		2		36	1		x	x	x	Advanced Standing.
													Students must possess fundamental compute
													skills and have experience with Windows
Т	439	301	Introduction to Basic Machining	1	1		36	1			х		Operating System.
									Completion of or concurrent enrollment in				
Т	439	303	Basic Machining - Milling	1	3		72	2	439-301 Introduction to Basic Machining		х		
									439-301 Introduction to Basic Machining;				
Т	439	305	Basic Machining - Drilling and Grinding	1	3		72	2	439-303 Basic Machining - Milling		x		
Т	439	399	2D AutoCAD Mold and Die Print Reading	4			72	2			х		
													Recommended: 103-189 Microsoft Windows
Т	444	302	CNC Controls	1	3		72	2			х		103-159 Computer Literacy - Microsoft Office
Т	444	333	Basics of Metrology	2			36	1	103-159 Computer Literacy - Microsoft Office		х		
									Completion of or concurrent enrollment in				
Т	444		Basic Programming	2	4		108	3	103-159 Computer Literacy - Microsoft Office		x		
G	804		Occupational Mathematics 1	3			54	2			х	х	
	890	101	**College 101	2			36	2		х	х	Х	**Institutional Requirement
			Total 1st Term Credits					18					
			Term 2:							S	F	SP	
Т	439	306	Basic Machining - Turning	1	3		72	2	439-301 Introduction to Basic Machining			х	
Т	444	310	Material Selection	2			36	1	890-101 College 101			х	
Т	444	311	Tooling and Workholding	1	3		72	2				х	
													Working knowledge of CNC programming
Т	444	340	Beginning CAM - Mastercam	1	3		72	2	444-350 Basic Programming			х	language is desired.
									103-159 Computer Literacy - Microsoft Office;				
Т	444		Advanced CAM 2D	1	3		72	2	444-340 Beginnning CAM - Mastercam			х	
Т	444	346	Design for 3D Machining	1	3		72	2	103-159 Computer Literacy - Microsoft Office			Х	Experience with 2D desirable
-		055	ONO Mashisian Osalan Daaraan i				70	0					Working knowledge of CNC Programming an
T	444		CNC Machining Center Programming	2	2		72 72	2	444-350 Basic Programming 444-355 CNC Machining Center Programming				CAM is helpful.
T	444		CNC Machining Center Operation	2	2			2			-	X	
G	804	361	Occupational Mathematics 2	3			54	2	804-360 Occupational Mathematics 1			Х	
			Total 2nd Term Credits					17					

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			irse		-		Week					picall	
· 1	T/G Su	Subj	Num	n Title	Lec	Lab	Other	Hours Cred	Credits	Prerequisites and/or Corequisites		fered	
				Term 3:							S	F \$	SP
										439-305 Basic Machining – Drilling and Grinding; 439-306 Basic Machining – Turning;			
	_									444-342 Advanced CAM 2D;			
_	Т	439		Pierce and Die Making	2	4		108	3	444-365 CNC Machining Center Operation		x	
	Т	439	329	Compound Die Making*	2	4		108	3	439-324 Pierce and Die Making		х	
	т	444	312	Product Engineering - Lean Manufacturing		2		36	1			x	Restricted to program students. It is recommended that students take 444-313 Prod Manufacturing the semester after completing th course.
	Т	444	343	Beginning CAM 3D	1	3		72	2	444-342 Advanced CAM 2D		x	
	т	444		Advanced CAM 3D	1	3		72	2	444-343 Beginning CAM 3D		x	
	T	444		Turning Center Operation	2	2		72	2	444-385 Turning Center Programming		x	
	T	444		Turning Center Programming	2	2		72	2	444-350 Basic Programming		x	
	G	804		Occupational Mathematics 3	3	_		54	2	804-361 Occupational Mathematics 2		x	
	Ŭ	001	002	Total 3rd Term Credits	Ū			01	17			~	
									17				
				Term 4:							S	F	SP
				Apply for Graduation when completing Ter	m A re	aietr	ation	·					
				Apply for Graduation when completing rel		gisti	ation			439-305 Basic Machining – Drilling and Grinding;			
	т	439	334	Single Cavity Mold Making	2	4		108	3	439-306 Basic Machining – Turning			x
	Т	439	339	Multi Cavity Mold Making*	2	4		108	3	439-334 Single Cavity Mold Making			x
	т	444	313	Product Manufacturing		4		72	2	444-312 Product Engineering - Lean Manufacturing			Restricted to program students. It is recommended that students take this course the semester after taking 444-312 Project Engineeri x - Lean Manufacturing.
	Т	444	386	Advanced Machining Center*	2	2		72	2	444-355 CNC Machining Center Programming			x
	т	444	391	Coordinate Measuring Machine	2	4		108	3	439-399 2D AutoCAD Mold and Die Print Reading; 804-361 Occupational Mathematics 2			x
	Т	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 Re	-				69				
				**The credits for 103-159 Computer Literac	y-Micr	osof	t Office	and 89	0-101 Col	lege 101 are Institutional Requirements for graduation	on.		
				*Capstone Projects are the exit assessmen	t grad	uatio	on requi	rement	for the p	rogram.			

If Student Success Center or General College courses (ie: 831-103 Introduction to College Writing, 838-105 Introduction to Reading and Study Skills, 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.