

CNC/Tool and Die Technologies - Academic Planner

Technical Diploma: 32-444-2 Campus: West Bend Curriculum for 2015-2016

12/1/2014

		urse	Title	Hours / Week Tot						Typically			
T/G	Subj				Lec Lab Oth		r Hours	Credits	Prerequisites and/or Corequisites	- (Offer	red	Comments
			Note: Students must purchase tool kits for the	is progr	am.								
			Term 1:							s	F	SP	
			New Program Students:	Atten	d Nev	v Stude	nt Orie	ntation an	d your Priority Registration Session				
	103	159	**Computer Literacy - Microsoft Office		2		36	1		x	х	х	**Institutional Requirement. May be eligible for Advanced Standing.
Т	439	301	Introduction to Basic Machining	1	1		36	1			х		Students must possess fundamental compute skills and have experience with Windows 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		
Т	439	305	Basic Machining - Drilling and Grinding	1	3		72	2	439-301 Introduction to Basic Machining; 439-303 Basic Machining - Milling		x		
Т	439		2D AutoCAD Mold and Die Print Reading	4			72	2	January State of Stat		х		
Т	444	302	CNC Controls	1	3		72	2			x		Recommended: 103-189 Microsoft Windows of 103-159 Computer Literacy - Microsoft Office
Т	444	333	Basics of Metrology	2			36	1	103-159 Computer Literacy - Microsoft Office		х		
Т	444	350	Basic Programming	2	4		108	3	Completion of or concurrent enrollment in 103-159 Computer Literacy - Microsoft Office		х		
G	804	360	Occupational Mathematics 1	3			54	2	·		х	х	
	890	_	**College 101	2			36	2		х		х	**Institutional Requirement
	000	101	Total 1st Term Credits	_				18			- /		
			Total 13t Tellii Orealts					10					
			Term 2:							S	F	SP	
Т	439	306	Basic Machining - Turning	1	3		72	2	439-301 Introduction to Basic Machining			х	
т	444		Material Selection	2			36	1	890-101 College 101			х	
Т	444		Tooling and Workholding	1	3		72	2	3			х	
Т	444		Beginning CAM - Mastercam	1	3		72	2	444-350 Basic Programming				Working knowledge of CNC programming language is desired.
Т	444		Advanced CAM 2D	1	3		72	2	103-159 Computer Literacy - Microsoft Office; 444-340 Beginnning CAM - Mastercam			х	0 0 111111
Ť	444		Design for 3D Machining	1	3		72	2	103-159 Computer Literacy - Microsoft Office			Х	Experience with 2D desirable
Т	444		CNC Machining Center Programming	2	2		72	2	444-350 Basic Programming			х	Working knowledge of CNC Programming an CAM is helpful.
Т	444		CNC Machining Center Operation	2	2		72	2	444-355 CNC Machining Center Programming			х	
G	804		Occupational Mathematics 2	3			54	2	804-360 Occupational Mathematics 1			х	
			Total 2nd Term Credits					17					

			Course		Hours / Week Total					Typically			
√ T/G S		Subj Num		Title		Lab Oth	er Hours	Credits	Prerequisites and/or Corequisites		Offered		Comments
				Term 3:						S	F	SP	
	Т	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		Compound Die Making*	2	4	108	3	439-324 Pierce and Die Making		X		
	T	444		Product Engineering - Lean Manufacturing		2	36	-	435-324 Fierce and Die Waking		X		Restricted to program students. It is recommended that students take 444-313 Produc Manufacturing the semester after completing this course.
	Т	444		Beginning CAM 3D	1	3	72		444-342 Advanced CAM 2D		х		
	T	444		Advanced CAM 3D	1	3	72		444-343 Beginning CAM 3D		Х		
	T	444		Turning Center Operation	2	2	72		444-385 Turning Center Programming		х		
	Т	444		Turning Center Programming	2	2	72		444-350 Basic Programming		Х		
	G	804		Occupational Mathematics 3	3		54	2	804-361 Occupational Mathematics 2		х		
				Total 3rd Term Credits				17					
				Total ora Total									
				Term 4:						S	F	SP	
				Apply for Graduation when completing Ter	m 4 re	gistration		Ĭ					
	Т	439	334	Single Cavity Mold Making	2	4	108	3	439-305 Basic Machining – Drilling and Grinding; 439-306 Basic Machining – Turning			х	
	Т	439	339	Multi Cavity Mold Making*	2	4	108	3	439-334 Single Cavity Mold Making			х	
	Т	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.
	Т	444	386	Advanced Machining Center*	2	2	72	2	444-355 CNC Machining Center Programming			Х	
	т	444	391	Coordinate Measuring Machine	2	4	108	3	439-399 2D AutoCAD Mold and Die Print Reading; 804-361 Occupational Mathematics 2			х	
	Т	444	394	Advanced Turning Center*	2	2	72	2	444-385 Turning Center Programming			х	
	G	801		Occupational Communication	3		54	2			х	х	
				Total 4th Term Credits				17					
				Total Duament Condita and Institutional Day				69					
				Total Program Credits and Institutional Requirements					lana 404 ava luatitutianal Danuiramanta faranza duati	- n C			the three are not next of the property
				**The credits for 103-159 Computer Literacy-Microsoft Office and 890-101 College 101 are Institutional Requirements for gradua requirements.									itiy, they are not part of the program credit
				*Capstone Projects are the exit assessmen	t grad	uation red	uiremen	for the pi	ogram.				

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 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.