



## Process Engineering Technology - Academic Planner

Industrial/Manufacturing Emphasis or Quality Assurance Emphasis

Associate of Applied Science Degree: 10-623-8

Campus: Fond du Lac (some courses also available at the West Bend campus)

Curriculum for 2012-2013

1/19/2012

Program Advisor: \_\_\_\_\_

Entrance Assessment Scores	ACT	Accuplacer
Assessment Areas		
English/Sentence Skills	18	76
Reading/Reading Comprehension	16	67
Math/Arithmetic	18	79

✓	T/G	Course		Title	Hours / Week			Total Hours	Credits	Prerequisites and/or Corequisites	Typically Offered			Comments
		Subj	Num		Lec	Lab	Other				S	F	SP	
<b>Institutional Requirements:</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
		890	125	Student Success - take 1st term							x	x	x	
		103	159	Computer Literacy - Advanced Standing or take 1st term							x	x	x	
		890	130	Career Development - take 3rd term							x	x	x	
<b>Term 1:</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
<b>New Program Students: Attend New Student Orientation and Your Priority Registration Session</b>														
	T	606	176	CAD 2-D, AutoCAD	2	2		72	3			x	x	
	T	606	170	CAD 3-D, NX (Unigraphics) (or)	2	2		72	3			x	x	Previous drafting experience or course and previous work on computers (Microsoft products such as Word, Excel, etc.) is recommended
	T	617	112	CAD 3-D, Pro-Engineer (or)								x	x	Previous drafting experience or course and previous work on computers (Microsoft products such as Word, Excel, etc.) is recommended
	T	617	114	CAD 3-D, SolidWorks							x	x	x	Previous drafting experience or course and previous work on computers (Microsoft products such as Word, Excel, etc.) is recommended
	T	623	162	Manufacturing Processes	2	2		72	3			x	x	
	G	801	195	Written Communication	3			54	3			x	x	x
	G	804	113	College Technical Math 1A	3			54	3			x	x	x
<b>Total 1st Term Credits</b>									<b>15</b>					
<b>Term 2:</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
	T	617	115	Jig & Fixture Design	1	4		90	3	Completion of or concurrent enrollment in 617-114 CAD 3-D, SolidWorks				x
	T	623	190	Basic Metrology	2	2		72	3					x
	T	628	136	Statistical Process Control	2	2		72	3					x
	G	801	196	Oral/Interpersonal Communication (or)	3			54	3			x	x	x
	G	801	197	Technical Reporting						801-195 Written Communication				x
	G	804	114	College Technical Math 1B	2			36	2	Completion of or concurrent enrollment in 804-113 College Technical Math 1A				x
	G	809	166	Intro to Ethics: Theory & Application	3			54	3	801-195 Written Communication				x
<b>Total 2nd Term Credits</b>									<b>17</b>					

✓	T/G	Course		Title	Hours / Week			Total Hours	Credits	Prerequisites and/or Corequisites	Typically Offered			Comments
		Subj	Num		Lec	Lab	Other				S	F	SP	
<b>Term 3:</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
	T	623	118	Gage Calibration/Repeat/Reproduc. (or)	2	2		72	3	623-190 Basic Metrology; 628-136 Statistical Process Control		x		
	T	628	122	Basic CNC Programming & Operation						103-159 Computer Literacy - Microsoft Office; Completion of or concurrent enrollment in 623-162 Manufacturing Processes or dean consent		x		
	T	623	151	Lean Manufacturing	2	2		72	3	623-162 Manufacturing Processes or dean consent		x		
	T	623	170	Process Planning	1	2		54	2	623-162 Manufacturing Processes		x		
	T	623	196	Geometric Dimensioning & Tolerancing	2	2		72	3	804-113 College Technical Math 1A		x		A print reading background is recommended.
	T	628	110	Integrated Manufacturing Planning - Process Engineering Technology	0	4		72	2	623-162 Manufacturing Processes 804-107 College Mathematics or 804-114 College Technical Math 1B		x		
	G	806	137	Comprehensive Technical Physics	3	2		90	4			x	x	
<b>Total 3rd Term Credits</b>								<b>17</b>						
<b>Term 4: Industrial Manufacturing Emphasis</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
<b>Apply for Graduation (which includes a \$30 graduation fee)</b>														
	T	628	111	Integrated Manufacturing Production - Process Engineering Technology	0	4		72	2	628-110 Integrated Manufacturing Planning - Process Engineering Technology			x	
	T	628	132	Adv CNC Programming & Operation	2	2		72	3				x	It is recommended students have taken 628-122 Basic CNC Programming and Operation or have industry experience in programming and setup of CNC machines using G-code programming, or dean consent
	T	628	133	Robotics & Automated Mat'l Hdlg	2	2		72	3				x	Recommended completion of 628-122 Basic CNC Programming & Operation, or background in working with automated equipment
	T	628	142	Computer Aided Manufacturing	2	2		72	3	628-122 Basic CNC Programming and Operation; 606-176 CAD 2-D, AutoCAD or dean consent			x	
	G	809	195	Economics	3			54	3	801-195 Written Communication	x	x	x	
	G	809	198	Intro to Psychology (or)	3			54	3		x	x	x	
	G	809	199	Psychology of Human Relations							x	x	x	
<b>Total 4th Term Credits</b>								<b>17</b>						
<b>OR Term 4: Quality Assurance Emphasis</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
<b>Apply for Graduation (which includes a \$30 graduation fee)</b>														
	T	623	106	Quality Tools	2	2		72	3				x	
	T	623	134	Basic CMM Programming and Operation	1	4		90	3				x	It is recommended that students have a background in print reading.
	T	623	167	ISO 9000/2000 and Auditing	2	2		72	3			x		
	T	628	111	Integrated Manufacturing Production - Process Engineering Technology	0	4		72	2	628-110 Integrated Manufacturing Planning - Process Engineering Technology			x	
	G	809	195	Economics	3			54	3	801-195 Written Communication	x	x	x	
	G	809	198	Intro to Psychology (or)	3			54	3		x	x	x	
	G	809	199	Psychology of Human Relations							x	x	x	
<b>Total 4th Term Credits</b>								<b>17</b>						
Additional Credits of Electives Required									3					
<b>Total Program Credits</b>								<b>69</b>						
<b>Completion of SME Certified Manufacturing Technologist Practice Exam is a graduation requirement for the program.</b>														

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>.

Suggested Elective: \_\_\_\_\_

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