

# Tool Design Engineering Technology - Academic Planner

Associate of Applied Science Degree: 10-617-1

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

Curriculum for 2010-2011

11/5/2009

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

Entrance Assessment Scores		
Assessment Areas	ACT	Accuplacer
English/Sentence Skills	16	76
Reading/Reading Comprehension	16	67
Math/Arithmetic	16	64

✓	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	No previous computer experience is required, but a background in fundamental blueprint reading and/or drafting skills is recommended.
	T	617	134	Principles of Design	1	4		90	3	Completion of or concurrent enrollment in 606-176 CAD 2-D, AutoCAD <b>OR</b> 606-170 CAD 3-D, NX (Unigraphics) <b>OR</b> 617-112 CAD 3-D, Pro-Engineer <b>OR</b> 617-114 CAD 3-D, Solid works		x	x	
	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	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, Solid works							x		x	Previous drafting experience or course and previous work on computers (Microsoft products such as Word, Excel, etc.) is recommended
	T	617	115	*Jig & Fixture Design	1	4		90	3	617-134 Principles of Design; Completion of or concurrent enrollment in 617-114 CAD 3-D SolidWorks				x
	T	617	120	Die Making Processes	2	2		72	3	606-176 CAD 2-D AutoCAD 617-134 Principles of Design 623-162 Manufacturing Processes				x

✓	T/G	Course		Title	Hours / Week			Total		Prerequisites and/or Corequisites	Typically Offered			Comments
		Subj	Num		Lec	Lab	Other	Hours	Credits		S	F	SP	
	G	801	197	Technical Reporting (or)	3			54	3	801-195 Written Communication		x	x	
	G	801	196	Oral/Interpersonal Communication							x	x	x	
	G	804	114	College Technical Math 1B	2			36	2	Completion of or concurrent enrollment in 804-113 College Technical Math 1A	x	x	x	
	G	809	166	Intro to Ethics: Theory & Application	3			54	3		x	x	x	
				Total 2nd Term Credits					17					
<b>Term 3:</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
	T	617	123	Adv Solid works Assembly Modeling	2	2		72	3	617-113 CAD Solids or 617-114 CAD 3-D SolidWorks		x		
	T	617	125	*Blanking & Compound Die Design	1	4		90	3	617-114 CAD 3-D SolidWorks; 617-120 Die Making Processes		x		
	T	617	126	Progressive Bend & Die Design	1	4		90	3	617-125 Blanking and Compound Die Design		x		
	T	617	130	Mold Making Processes	2	2		72	3	617-114 CAD 3-D SolidWorks; 617-134 Principles of Design; 623-162 Manufacturing Processes		x		
	T	617	138	Intergratd Mfg Planning-Tool Design	1	2		54	2	617-115 Jig and Fixture Design		x		
	G	806	137	Comprehensive Technical Physics (or)	3	2		90	4	804-114 College Technical Math 1B		x	x	
	G	804	116	College Technical Math 2						804-114 College Technical Math 1B	x	x	x	
				Total 3rd Term Credits					18					
<b>Term 4:</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
				<b>Apply for Graduation</b>										
	T	617	135	Two & Three Plate Mold Design	1	4		90	3	617-130 Mold Making Processes				x
	T	617	136	*Side Action & Hot Runner Mold Design	1	4		90	3	617-135 Two & Three Plate Mold Design				x
	T	617	139	Intergratd Mfg Productn-Tool Design		4		72	2	617-138 Integrated Manufacturing Planning, Tool Design Engineering				x
	T	623	196	Geometric Dimension/Tolerance-CMM	2	2		72	3					x
	G	809	195	Economics	3			54	3	801-195 Written Communication	x	x	x	
	G	809	198	Intro to Psychology (or)	3			54			x	x	x	
	G	809	199	Psychology of Human Relations	3			54	3		x	x	x	
				Total 4th Term Credits					17					
				Additional Credits of Electives Required					3					
				<b>Total Program Credits</b>					<b>70</b>					
<b>*Capstone Projects are an exit assessment 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, 804-110 Elementary Algebra with Applications) 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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