

# Mechanical Design Technology - Academic Planner

Associate of Applied Science Degree: 10-606-1

Campus: Fond du Lac (Day &amp; Part-time Evening); (some courses also available at the West Bend campus)

Curriculum for 2010-2011

10/30/2009 (rev 2/16/10)

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

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

✓	Course		Title	Hours / Week			Total		Prerequisites and/or Corequisites	Typically Offered			Comments
	T/G	Subj Num		Lec	Lab	Other	Hours	Credits		S	F	SP	
<b>Institutional Requirements:</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>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	This course replaces 606-162 Manufacturing Methods
G	801	195	Written Communication	3			54	3		x	x	x	
G	804	113	College Technical Math 1A	3			54	3		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	
<b>Total 1st Term Credits</b>								<b>17</b>					
<b>Term 2:</b>													
T	606	103	Design Specifications	1	4		90	3	606-101 Design Drafting 1 <b>or</b> 617-134 Principles of Design; Completion of or concurrent enrollment in 606-170 CAD 3-D NX Unigraphics		x	x	
T	606	132	Materials of Industry	3			54	3	Completion of or concurrent enrollment in 606-101 Design Drafting 1 <b>or</b> 617-134 Principles of Design			x	
T	606	170	CAD 3-D NX (Unigraphics)	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
G	801	196	Oral & Interpersonal Communication (or)	3			54	3		x	x	x	
G	801	197	Technical Reporting						801-195 Written Communication		x	x	
G	804	116	College Technical Math 2	4			72	4	804-114 College Technical Math 1B	x	x	x	
G	809	195	Economics	3			54	3	801-195 Written Communication	x	x	x	
<b>Total 2nd Term Credits</b>								<b>19</b>					

✓	Course			Title	Hours / Week			Total Hours	Credits	Prerequisites and/or Corequisites	Typically Offered			Comments
	T/G	Subj	Num		Lec	Lab	Other				S	F	SP	
<b>Term 3:</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
	T	606	107	Component Design	1	6		126	4	606-103 Design Specifications; 606-132 Material of Industry		x	x	
	T	606	112	Integrated Mfg Planning - Mech Design	1	2		54	2	Completion of or concurrent enrollment in 606-105 Design Drafting 3 <b>or</b> 606-107 Component Design		x		It is recommended that the student take 606-111 Integrated Mfg Production-Mechanical Design in the semester after this course.
	T	606	116	Machine Elements	3			54	3	606-101 Design Drafting 1 <b>or</b> 617-134 Principles of Design; 804-116 College Technical Mathematics 2		x		
	T	606	128	Design Statics	3			54	3	804-116 College Technical Mathematics 2		x		
	G	809	166	Intro to Ethics: Theory & Application	3			54	3		x	x	x	
				Total 3rd Term Credits					<b>15</b>					
<b>Term 4:</b>											<b>S</b>	<b>F</b>	<b>SP</b>	
				<b>Apply for Graduation</b>										
	T	606	111	Integrated Mfg Production - Mech Design		4			2	606-110 IMC Planning Mechanical Design <b>or</b> 606-112 Integrated Manufacturing Planning Mechanical Design			x	It is recommended that the student take this course in the semester after they take 606-112 Integrated Mfg Planning Mechanical Design
	T	606	125	<b>Product Design*</b>	1	6			4	606-105 Design Drafting 3 <b>or</b> 606-107 Component Design; 606-116 Machine Elements; Completion or concurrent enrollment in 606-130 Strength of Materials			x	
	T	606	130	Strength of Materials	2	2			3	606-128 Design Statics			x	
	T	623	196	Geometric Dimension/Tolerance-CMM	2	2		72	3				x	Recommend completion of 617-134 Principles of Design and 804-113 College Technical Math 1A prior to taking this course <b>OR</b> have print reading background
	G	809	198	Introduction to Psychology ( <b>or</b> )	3			54	3		x	x	x	
	G	809	199	Psychology of Human Relations	3			54			x	x	x	
				Total 4th Term Credits					<b>15</b>					
				Additional Credits of Electives Required					3					
				<b>Total Program Credits</b>					<b>69</b>					
				<b>A Comprehensive Project is the required Exit Assessment for this 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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