

Mechanical Design Technology - Academic Planner

Associate of Applied Science Degree: 10-606-1

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

Curriculum for 2011-2012

10/27/2010

Program Advisor: _____

Entrance Assessment Scores		ACT	Accuplacer
Assessment Areas			
English/Sentence Skills		16	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	
Institutional Requirements:											S	F	SP	
		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	
Term 1:											S	F	SP	
New Program Students: Attend New Student Orientation and your Priority Registration Session														
	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 OR 606-170 CAD 3-D, NX (Unigraphics) OR 617-112 CAD 3-D, Pro-Engineer OR 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	
	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	
Total 1st Term Credits									17					
Term 2:											S	F	SP	
	T	606	103	Design Specifications	1	4		90	3	606-101 Design Drafting 1 or 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 or 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	
Total 2nd Term Credits									19					

✓	T/G	Course		Title	Hours / Week			Total Hours	Credits	Prerequisites and/or Corequisites	Typically Offered			Comments
		Subj	Num		Lec	Lab	Other				S	F	SP	
Term 3:											S	F	SP	
	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		4		72	2	Completion of or concurrent enrollment in 606-105 Design Drafting 3 or 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 or 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					15					
Term 4:											S	F	SP	
				Apply for Graduation										
	T	606	111	Integrated Mfg Production - Mech Design		4			2	606-110 IMC Planning Mechanical Design or 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	Product Design*	1	6			4	606-105 Design Drafting 3 or 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 OR have print reading background
	G	809	198	Introduction to Psychology (or)	3			54	3		x	x	x	
	G	809	199	Psychology of Human Relations							x	x	x	
				Total 4th Term Credits					15					
				Additional Credits of Electives Required					3					
				Total Program Credits					69					
				*A Comprehensive Project is the required Exit Assessment for this program.										

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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10-606-1 Mechanical Design Technology

Evening Degree Program Offerings

		Year of Rotation	1		2		3		4	
Course Number	Course Name	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	
Software Courses	606-176	CAD 2-D AutoCAD	X	X	X	X	X	X	X	
	606-170	CAD 3-D NX (Unigraphics)	X		X		X		X	
CAD Design Courses	617-134	Principles of Design	X	X	X	X	X	X	X	
	606-103	Design Specifications	X	X	X	X	X	X	X	
	606-107	Component Design	X	X	X	X	X	X	X	
Mfg Courses	623-162	Manufacturing Processes		X			X		X	
	623-192	GD&T - with CMM Verification			X		X	X		
Design Courses	606-132	Materials of Industry				X			X	
	606-112	Integrated Mfg Planning - Mech Design	X					X		
	606-111	Integrated Mfg Production - Mech Design		X					X	
	606-128	Design Statics			X					
	606-130	Strengths of Materials				X				
	606-116	Machine Elements					X			
	606-125	Product Design						X		
Electives	606-171	Adv CAD, NX (Unigraphics) (Elective)	X		X		X	X		