ENGINEERING PROGRAM CLUSTER

Mechanical Design Technology (10-606-1)		
2015-2016 Curriculum		
Course#	**Title**	**Cr.**
Semester 1:		
103-159	Computer Literacy	1
606-176	CAD 2-D, AutoCAD	3
617-114	CAD 3-D, SolidWorks	3
623-162	Manufacturing Processes	3
804-113	College Technical Math 1A	3
804-114	College Technical Math 1B	2
890-101	College 101	2
	Total 1st Semester Credits	**17**
Semester 2:		
606-116	Machine Elements	3
606-132	Materials of Industry	3
617-115	Jig and Fixture Design	3
801-136	English Composition 1	3
804-116	College Technical Math 2	4
809-195	Economics	3
	Total 2nd Semester Credits	**19**
Semester 3:		
606-107	Component Design	4
606-112	Integrated Mfg Planning - Mechanical Design	2
606-128	Design Statics	3
623-196	Geometric Dimensioning &Tolerancing	3
801-196	Oral/Interpersonal Communication **(or)**	3
801-197	Technical Reporting	
809-166	Intro to Ethics: Theory and Application	3
	Total 3rd Semester Credits	**18**
Semester 4:		
606-111	Integrated Mfg Production, Mechanical Design	2
606-125	Product Design	4
606-130	Strength of Materials	3
617-149	Tool Design	4
809-198	Intro to Psychology (or)	3
809-199	Psychology of Human Relations	
	Total 4th Semester Credits	**16**
*	Elective	3
	Total Program Credits	**73**

*Students must take an additional 3 credits of electives

Die Design Certificate (97-617-1)		
2015-2016 Curriculum		
Course#	**Title**	**Cr.**
617-114	CAD 3-D, SolidWorks	3
617-115	Jig & Fixture Design	3
617-123	Adv. Solidworks Assembly Modeling	3
617-149	Tool Design	4
617-147	Die Design 2	3
617-148	Die Design 3	3
	Total Die Design Certificate Credits	**19**

Mold Design Certificate (97-617-2)		
2015-2016 Curriculum		
Course#	**Title**	**Cr.**
617-114	CAD 3-D, SolidWorks	3
617-115	Jig & Fixture Design	3
617-123	Adv. Solidworks Assembly Modeling	3
617-149	Tool Design	4
617-152	Mold Design 2	3
617-153	Mold Design 3	3
	Total Mold Design Certificate Credits	**19**

MORAINE PARK TECHNICAL COLLEGE

Process Engineering Technology (10-623-8)			
2015-2016 Curriculum			
	Course #	**Title**	**Cr.**
	Semester 1:		
	103-159	Computer Literacy	1
	617-114	CAD 3-D, Solidworks **(or)**	3
	606-176	CAD 2-D, AutoCAD	3
	623-162	Manufacturing Processes	3
	801-136	English Composition 1	3
	804-113	College Technical Math 1A	3
	890-101	College 101	2
		Total 1st Semester Credits	**18**
	Semester 2:		
	617-115	Jig & Fixture Design	3
	623-190	Basic Metrology	3
	628-136	Statistical Process Control	3
	801-196	Oral/Interpersonal Communication **(or)**	3
	801-197	Technical Reporting	
	804-114	College Technical Math 1B	2
	809-166	Intro to Ethics: Theory and Application	3
		Total 2nd Semester Credits	**17**
	Semester 3:		
	623-118	Gage Calibration, Repeatability/Reproducibility (or)	3
	628-122	Basic CNC Programming and Operation	
	623-151	Lean Manufacturing	3
	623-170	Process Planning	2
	623-196	Geometric Dimensioning &Tolerancing	3
	628-110	Integrated Mfg Planning - Process Engineer. Tech.	2
	806-137	Comprehensive Tech Physics	4
		Total 3rd Semester Credits	**17**
	Semester 4:		
	628-111	Integrated Mfg Production, Engineering Technologist	2
Industrial - Mfg. Track	628-132	Advanced CNC Programming and Operation	3
	628-133	Robotics and Automated Material Handling	3
	628-142	Computer Aided Manufacturing	3
Quality Assurance Track	623-106	Quality Tools	3
	623-134	Basic CMM Programming and Operation	3
	623-167	ISO 9000/2000 and Auditing	3
	809-195	Economics	3
	809-198	Introduction to Psychology **(or)**	3
	809-199	Psychology of Human Relations	
		Total 4th Semester Credits	**17**
	*	Elective	3
		Total Program Credits	**72**
*Students must take an additional 3 credits of electives			
Students are required to take 9 credits from one of the following 2 tracks:			
		Quality Assurance Track	9
		Industrial/Manufacturing Track	9

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Classes in BLACK are program specific
Classes in RED are shared with other program(s)
Classes in BLUE are institutional requirements
Classes in PURPLE are in the certificates only.

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