

Student Name _____

2017/2018

**Grand Rapids Community College
Mechanical Design-CODE 904
Program Check Sheet**

First Year

First Semester

Course Title	Credit Hr/ Contact Hr	Grade	Substitution	Waived	Transfer/Equivalent
EG110 Industrial Graphics with CAD	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
DR150 Introduction to Solidworks	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
MN199 Theory of Machine Shop OR	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
MN119 Introductory Machine Operations	(4) (8)	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
DR180 Introduction to Mechanical Concepts	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Technical Elective *	3-5 3-5	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Totals	15-18				

Second Semester

Course Title	Credit Hr/ Contact Hr	Grade	Substitution	Waived	Transfer/Equivalent
DR212 Tool Design	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
DR258 Introduction to Pro-Engineering	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
DR190 Intermediate SolidWorks	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
EG201 Advanced Engineering Graphics	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Technical Elective *	3-4 3-4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Totals	15-16				

Second Year

Third Semester

Course Title	Credit Hr/ Contact Hr	Grade	Substitution	Waived	Transfer/Equivalent
EN101 English Composition	3 3	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
DR229 Detail Drafting	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
DR240 Advanced SolidWorks	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
DR224 Die Design	3 4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Natural Science Elective *	3-4 4-6	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Totals	15				

Fourth Semester

Course Title	Credit Hr/	Contact Hr	Grade	Substitution	Waived	Transfer/Equivalent
EN102 English Composition 2	3	3	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
DR279 Team Design Project	3	4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Humanities Elective	3	4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Mechanical Design Electives	3	4	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Social Science Elective	3	3	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
Totals	15			Total Credits	60 Minimum	

Important Notes:

*If taking TE103 and TE104 you will need to take a natural science elective to fulfill graduation requirements.

**Students intending to transfer to Ferris should take MA108 and MA110 or just MA131

***Ferris Product Design Program – take COM 131, TE114 and PH 125, no mechanical design elective.

****Ferris Manufacturing Technology Program – Take BA145 and COM 131, no mechanical design elective

Please note that you should check the specific requirements for the 4-year program to which you intend to transfer

Mechanical Design Electives

(Please note that students with insufficient credits to graduate after completing the required courses should take additional Mechanical Design Electives.)

DR 225	Advanced Die Design	3	DR 260	Introduction to Catia	3
DR 241	Mold Design & Theory	3	MN 220	Basic Plastic Processing	4
DR 140	Introduction to Inventor	3	TE 282	Cooperative Education in Technology	3
MN 235	CNC Programming	3	BA145	Computer Applications in Business	4
DR 155	Introduction to NX	3			

Technical Electives

TE103	Technical Mathematics	3	TE104	Adv. Technical Mathematics	3
TE114	Material Science	4	MA 108	Trigonometry	3
MA 110	College Algebra	4	MA 131	Pre-Calculus	5