CENTER FOR INNOVATIVE TECHNOLOGIES MASTER COURSE DOCUMENT

MET 131 MET Computer Aided Drafting 1

Course Description: An introduction to mechanical drafting and computer aided drafting. Topics include: geometric construction, orthographic projection, dimensioning, section views, and auxiliary views.

Supplemental	Гаа.			Credit Hours: 3	
	Supplemental Fee: 0		Purpose:		
Course (TAG)		Transfer Module	Course (TM)		
		Grading: A/B/C	C/D/F/I		
□ Hybrid	⊠ Cla	ssroom			
⊠ Spring	⊠ Sur	mmer			
distributed by	the in	structor			
	⊠ Spring	Spring ⊠ Sung Sung Autodesk Inventor	☐ Hybrid ☑ Classroom ☑ Spring ☑ Summer g Autodesk Inventor 2019 and Auto	Spring ⊠ Summer g Autodesk Inventor 2019 and AutoCAD 2019	

The student will have the ability to apply a knowledge of mathematics, science, engineering, and

The student has the ability to communication technical information through drawings The student will demonstrate a commitment to quality, timeliness, and continuous

Technology to produce complete drawings and models.

3

improvement

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Course Topics:

Week 1	Basics of pencil sketching
Week 2	Sketching: Orthographic projection & dimensioning
Week 3	AutoCAD: Getting started in CAD. Two-dimensional drawings, dimensions
Week 4	AutoCAD: Two-dimensional drawings with dimensions, Exam #1
Week 5	AutoCAD: Orthographic drawings, dimensions, layers, linetypes
Week 6	AutoCAD: Multi-view drawings, tolerances, holes, Exam #2
Week 7	Inventor: Intro. to solid modelling, basic models
Week 8	Inventor: Creating & dimensioning drawings
Week 9	Inventor: Hole types, adding & subtracting mat'l, fillets
Week 10	Inventor: Advanced modelling
Week 11	Inventor: Exam #3, Revolve, mirror, section views
Week 12	Inventor: Creating Assembly models
Week 13	Inventor: Creating assemblies with balloons & parts lists
Week 14	Inventor: Assembly drawings
Week 15	Inventor: Assemblies, Exam #4

Methods of Evaluation/Assessment

□ Formative:	
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List assessment activities (e.g. quizzes, discussions, essays, research papers, debates, oral presentations, exams):

60% of course grade is in-class assignments	
30% of course grade is from four exams	
10% of course grade is for class-participation	

Course Keeper: M.DeVore Date Completed: 8/11/18