

1. Course Title:

Three Dimensional Modeling

IET 265 – 4 Credits

6 hr Lecture & Lab per week

MET Core Program Requirement

Prerequisite: IET 160 and IET 165 or permission of instructor

This is a Technical content course under ABET Criterion 5

IET 265 - Three-Dimensional Modeling

Description:

Design of parts, assemblies and working drawings using 3-D solid modeling software, basic theory of threaded fasteners and gears, welding representation and geometric dimensioning and tolerancing.

Prerequisites & Notes:

Prerequisites, IET 160 and IET 165 or permission of instructor.

Credits: (4)

2. Faculty Member Information:

Instructor: Chris Scarlett

Office:

Phone: 509- 899-2732

E-mail: @cwu.edu

3. Course Description:

Design of parts, assemblies and working drawings using 3-D solid modeling software, basic theory of threaded fasteners and gears, welding representation and geometric dimensioning and tolerancing.

4. Textbook and other required materials for the course:

Engineering Design with SolidWorks 2008, David C. & Marie P. Planchard, SDC Publications

Supplies: At least 1GB flash or thumb drive

5. Specific Learner and Expressive Outcomes and Assessment Strategies:

ABET Outcome Criteria #	Learner Outcomes	Assessment
	The student will:	
	1. Demonstrate the ability to produce solid 3-D models using SolidWorks software	Design assignments due and graded weekly.
	2. Demonstrate the ability to understand basic concepts and terminology as explained in the textbook and in lecture	Periodic assessments involving short answer examinations.
	3. 3. Demonstrate the ability to produce basic design documents under a time constraint	Periodic assessments involving the creation and modification of design documents during examinations.

6. Course Topics and Schedule:

7. Grading:

Design Assignments: Weekly design assignments are due by Friday at 5pm (firm) either by print or by eDrawings. Design assignments will be properly labeled, dimensioned and with a title block (we will build on this through out the quarter). Maximum points will be 10 points per drawing (unless extra credit work is demonstrated). You will receive a letter grade as a final assessment in this class based on the following scale:

A = 92 or higher, A- = 89 – 91, B+ = 86 – 88, B = 83 – 85, B- = 80 – 82, C+ = 77 – 79, etc...

8. ADA Statement:

Students who have special needs or disabilities that may affect their ability to access information and or material presented in this course are encouraged to contact me or Robert Harden, ADA Compliance Officer, Director, ADA Affairs and Students Assistance on campus at 963-2171 for additional disability related educational accommodations.

Prepared by Roger Beardsley June 22, 2009