Instructor: Ric Costin   Office: IA 237A
Phone: (541) 917-4773   E-Mail: costinr@linnbenton.edu
CAD Lab: na   Phone: na
Office Hours: TBA or by appointment.

Course Goals and Objectives:

Students will gain an advanced understanding of 3-D drafting and drawings using SolidWorks with an introduction to Rapid Prototyping. Students will learn to produce drawings using proper techniques, symbols, nomenclature and styles as described by current ANSI standards. Students will gain a sense of work ethic and time management skills by producing technical drawings within set time frames. Students will gain an understanding of team design processes and customer interaction.

Outcomes:

Create basic parametric solid models and assemblies
Create dimensioned drawing to ANSI standards from the solids
Configure files, templates, title blocks and interface

Text and Supplies:

Required: Red Pen

Optional: Pocket Ref, T. J. Glover, Sequoia Publishing, Solid Works for designers 2020, Sham Ticoo, CADCIM technologies,

Evaluation:

A: 100-90%	**Grade Weighting**
B: 89~80%	Assignments: 60%
C: 79~70%	Final Project, Tests & Quizzes: 40%
D: 69~60%	
F: 59% or below	

INCOMPLETE : By special request and arrangement

Class Policies:

- **Success** in this program is easily attainable through the following:

  - Attend promptly every day
  - Inform the instructor of missed classes in advance
  - Work to the best of your ability
  - Be prepared
  - Conduct yourself respectfully
  - Care about what happens in class
  - If you miss a class you are responsible for assignments and due dates.

- All homework is due at the time stated in Moodle, or 1 week from the assigned date.. Late homework is not accepted. For more information and exceptions, see the late policy.
  - Exceptions may be made due to illness/accidents or other unusual circumstances
  - Late homework may be taken due to pre-planned events but *arrangements must be made in advance*
- Extra credit will boost the assignment portion of your grade. Extra credit applies after regular homework only, no late extra credit will be taken.
- All testing will be done in IA237 or On-line, open book, open notes.
- All homework is unique and original work created by the person named on the drawing for whom the homework is being turned in by. No part of the homework, except group projects, shall be copied, duplicated, shared or in any way represent work done by someone else. If there is evidence of exchanged assignments both parties will receive zeros for the assignment.
- LBCC is committed to inclusiveness and equal access to higher education. If you have approved accommodations through the Center for Accessibility Resources (CFAR) and would like to use your accommodations in this class, please talk to your instructor as soon as possible to discuss your needs. If you believe you may need accommodations but are not yet registered with CFAR, please visit the CFAR website for steps on how to apply for services or call 541-917-4789.
- You are held accountable to the Student Code of Conduct, which outlines expectations pertaining to academic honesty (including cheating and plagiarism), classroom conduct, and general conduct.

Course Outline: (Note: This may change and is not all inclusive)

Week 1:	Solidworks Overview, Basic Sketching, Editing, Relations	CH. 1,2,3,4
Week 2:	Drawing Template, Base Features, Reference Geometry	CH. 5,6
Week 3:	Border, Placed Features	CH. 7
Week 4:	Patterned Features, Editing Features	CH. 8, 9
Week 5:	Midterm, Basic drawings	CH. 14, 15
Week 6:	Section and other drawing views, Sweep, Loft, 3D Sketches	CH. 15, 10
Week 7:	Configurations,	CH.
Week 8:	Basic Assemblies	CH. 12
Week 9:		CH.
Week 10:	Final Project	
Week 11:	Final Wednesday, 9a-11:50a	