# Linn-Benton Community College
# Machine Tool Technology
# Course Syllabus

**Course Name:** Solidworks 2

**Course Number:** MA3.428

**CRN:** 40677

**Credits:** 3

**Prerequisite:** Solidworks 1 or instructor approval

**Days, Hours:** Monday, 6:00 pm to 7:00 pm and on your own

**Location:** Intertubes

**Instructor:** Teryk Morris

**Office & Office Hours:** By Appointment

**Phone # and E mail Address:** 541-917-4600, teryk.morris@linnbenton.edu

**Course Description:**
Provides advanced training and learning experiences in Solid Works mechanical design automation application software. This software makes it possible for designers to quickly sketch out ideas, experiment with features and dimensions, and produce models and detailed drawings. This course is the second in the series.

**Course Objectives:**
Upon successful completion of this course, students will be able to:
Demonstrate an understanding of the basic concepts and terminology used throughout the SolidWorks applications. Use the commonly used functions of SolidWorks. Create and edit basic 3-D models of parts and assemblies. Create 2-D drawings from 3-D solid models. Import, export and save files using SolidWorks.

**Methods of Instruction:**
A combination of lectures, quizzes, demonstrations and exercises are used to guide students to a series of competencies. Specific skills are gained and measured, by the completion of the exercises.

**Method of Evaluation:**
**Method of Evaluation:**

- Class Participation 10%
- Modeling Exercises and Quizzes 70%
- Final Exam 20%.

All assignments must be turned in by their due date for full credit. Assignments may be handed late but will be assessed a penalty of 10% per week they are late.

Attendance is Mandatory. Unexcused absences will drastically affect your grade. Class work missed during excused absences may be made up with the agreement of the instructor. Class work missed during unexcused absences may not be made up.

**A: 100~90%**
**B: 89~80%**
**C: 79~70%**
**D: 69~60%**
**F: 59% or below**
**IN: By signed agreement, *Student Requested.* All incomplete Coursework must be Completed by the Next Term.**
**Y: Not enough Coursework completed to Warrant Grading.**

## Course Content:

The general workflow when using Solidworks for manufacturing is to create part models which are fit together into assemblies. Parts and assemblies are modified and reworked until an overall design is realized. At this point dimensioned drawings are created for each individual part to be manufactured.

In this course we will start with simple parts and simple assemblies. We will learn the entire workflow and create drawings of these simple parts. Each week we will add a bit of complexity to a different aspect of the workflow while still completing the whole process to gain competency through repetition.

**Week 1**
Course Introduction, About the CSWA, Assigning Materials and Determining Mass Properties

**Week 2**
Reference Geometry and Multi Sketch parts

**Week 3**
Basic Assembly Review and More Advanced Mates

**Week 4**
More Advanced Solidworks Drawings

**Week 5**
Sweeps and Lofts

**Week 6**
TBD

**Week 7**
TBD

**Week 8**
TBD

**Week 9**
Review for Final

**Week 10**
# Final Exam

**Disabilities Services and Emergency Planning – Meet with Instructor Week One**
If you have emergency medical information for your instructor, need special arrangements to evacuate campus, or have a documented disability, please meet with your instructor, by appointment, no later than the first week of the term, to discuss your needs. If you have a documented disability that will impact you at college and you seek accommodations, contact the Office of Disability Services (ODS) for intake and to document your disability with LBCC. Then, each term, at least two to three weeks prior to the start of classes, submit your "Request for Accommodations" form to ODS and pickup instructor letters. ODS may be reached from any LBCC campus/center by email to ODS@linnbenton.edu or by calling 917-4789. Letter pickup is available at each LBCC campus/center.

The LBCC community is enriched by diversity. Each individual has worth and makes contributions to create that diversity at the college. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. (Related to Board Policy #1015)