LABETTE COMMUNITY COLLEGE BRIEF SYLLABUS

SPECIAL NOTE:
This brief syllabus is not intended to be a legal contract. A full syllabus will be distributed to students at the first class session.

TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE (if any):

Please check with the LCC bookstore http://www.labette.edu/bookstore for the required texts for this class.

COURSE NUMBER: INDU 210

COURSE TITLE: Computer Aided Drafting & Design

SEMESTER CREDIT HOUR: 3 Credit Hours

DEPARTMENT: Industrial Technology

DIVISION: CTE and General Education

PREREQUISITES: INDU 131 ENGINEERING GRAPHICS

REVISION DATE: 5/31/2018

COURSE DESCRIPTION:
This course will include the use of computer aided design software to generate complex 3-D geometry for the purpose of communicating the following; manufacturing information, detail design information, dimensioning and tolerance data, and surface finish.

This course will teach the student more advanced drafting skills. It will take the skills developed in Engineering Graphics I and further develop those skills in the art of drafting.

The student will be expected to develop acceptable skills in the art of drafting. Additionally, the following areas will be covered: geometric tolerances, auxiliary views, threads and fasteners, assembly and working drawings, the design process, and pictorial drafting techniques.

COURSE OUTCOMES AND COMPETENCIES:
Students who successfully complete this course will be able to:

1. Demonstrate understanding of the design process and the impact of dimensions and tolerances on design and manufacturing.

2. Demonstrate proficient use of Parametric Design software and have an understanding of specifying design intent with the industry tool.

3. Demonstrate understanding of the concept of complete system design through production of part and assembly drawings (working drawings), parts list, etc

4. Demonstrate the proper work habits including dependability, punctuality and cooperation with the instructor and other students.

5. Demonstrate an understanding of the need for and participation in continuing education and enhancement of professional knowledge.

6. Draw complex objects.

7. Utilize advanced drafting methods.