

**Salt Lake Community College**

**Advanced Manufacturing Principles II**

**AMFG 2310 – Fall Semester 2020**

**Department Name:** Division of Workforce Training and Continuing Education

**Instructor:** TBD

**Email:** TBD

**Class Date:** TBD

**Class Time:** TBD

**Class Location:** TBD

**Office Hours:** By appointment

**Textbook:** None

**Prerequisite:** WTAM 1210

**Course Description**

This is the second course in Advanced Manufacturing Principles. Students will learn production system organization; geometric dimensioning and tolerancing; basic elements of process control; and essential statistics concepts and terminology.

Course Learning Outcomes
1. Discuss how production systems in advanced manufacturing are organized
2. Describe the purpose of each organizational unit
3. Interpret geometric dimensioning and tolerancing
4. Calculate statistical data using scatter plots, bell curve, average, mean, median, mode, variation, and standard deviation
5. Explain “bring processes in control and increase capability”
6. Create and interpret an X-Y work chart

**COURSE MATERIALS and COMMUNICATIONS:** This course will make extensive use of the SLCC Canvas online management system to provide course materials, communicate official announcements, serve as a repository for course specific information, and channel communications between students and the instructor. Be sure to set your Canvas preferences so that notifications and updates reach you in a timely manner. If you are new to the Canvas system, there are various options available for orientations and training available.

**TOPICS COVERED:**

Unit #	Topic	Assignment due
1	Production Systems in Advanced Manufacturing	Homework Unit 1
2	GD&T	Homework Unit 2
3	Statistics Overview	Homework Unit 3
4	Scatter Plots and Bell Curves	Homework Unit 4 Midterm
5	Average, Mean, Median, Mode, Variation, and Standard Deviation	Homework Unit 5
6	X-Y Work Charts	Homework Unit 6 Final Exam

**Grading\***

A	100 %	to 94.0%
A-	< 94.0 %	to 90.0%
B+	< 90.0 %	to 87.0%
B	< 87.0 %	to 84.0%
B-	< 84.0 %	to 80.0%
C+	< 80.0 %	to 77.0%
C	< 77.0 %	to 74.0%
C-	< 74.0 %	to 70.0%
D+	< 70.0 %	to 67.0%
D	< 67.0 %	to 64.0%
D-	< 64.0 %	to 61.0%
F	< 61.0 %	to 0.0%

## Subject to change

Assessment	Description	Percentages
All Homework	Average of all homework assignments	40%
Midterm	Covers Units 1-4	30%
Final Exam	Comprehensive exam that covers all material in the course.	30%