

# MANUFACTURING TECHNOLOGY (MFG)

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**MFG180 Internship: Manufacturing** 1-12 credits (3 lab hrs/wk/cr)

Prerequisite(s): Instructor consent

Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge.

This course may be taken 12 times for credit.

Course classification: LDC

**MFG280 CWE: Manufacturing** 1-12 credits (3 lab hrs/wk/cr)

Prerequisite(s): Instructor consent

The student is required to be employed in a manufacturing-related position for an organization or company utilizing manufacturing principles, methods, techniques, and/or skills.

This course may be taken 12 times for credit.

Course classification: LDC

**MFG4102 Mechanical Systems** 3 credits (2 lec, 2 lec lab hrs/wk)

This course focuses on learning the fundamentals of mechanical power.

Students learn common mechanical components from nuts and bolts to gears, gear boxes, shafts and bearings. Students perform common mechanical tasks, and learn to fine-tune drive systems involving belts, chains, etc. This course demonstrates the importance of lubrication in maintaining gears and other movable parts, and emphasizes operations to reduce friction and wasted motion, which are major contributors to energy inefficiency.

This course may be taken 1 time for credit.

Course classification: CTE