

# MFG 243 : INDUSTRIAL SENSORS

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## Transcript title

Industrial Sensors

## Credits

2

## Grade mode

Standard letter grades

## Contact hours total

60

## Lab hours

60

## Prerequisites

instructor approval.

## Recommended preparation

MFG 100.

## Description

Sensor applications. Includes study of mechanical, electronic and proximity sensor applications found in a typical manufacturing environment.

## Learning outcomes

1. Student will describe typical applications for 5 different types of sensors.
2. Student will design robotic grippers that incorporate sensors during operation to determine robotic function or outcome.
3. Student will perform sorting of different types of material by incorporating different and appropriate sensors.
4. Student will design and setup different types of alarm systems using sensors.
5. Student will utilize sensors to start and stop conveyor belt operations.
6. Student will recognize that many manufacturing machines are dependent on the proper application and maintenance of sensors.