

# ENGINEERING TECHNOLOGY: MECHANICAL ENGINEERING DESIGN TECHNICIAN (CERT)

## CERTIFICATE OF ACHIEVEMENT

Engineering Technology focuses on the application and implementation of concepts in the engineering field. Our program prepares students to become technicians in industry. Those technicians typically assist engineers on a daily basis. This field of study also provides a general understanding of technology that is very useful in any technical field. Students interested in continuing their studies can transfer to Engineering Technology programs at universities.

## Program Student Learning Outcomes

- Student applies principle of Geometric Dimensioning and Tolerancing in manufacturing
- Student design, implement and troubleshoot industrial motors control
- Student develop machine tools maintenance program and perform maintenance of industrial equipment
- Student interpret P&ID diagrams and implement and troubleshoot process control
- Student read blueprints up to Industry Standards
- Student select appropriate materials based on design usage, loads and condition

## Program Requirements

Code Number	Course Title	Units
<b>Required Courses</b>		
ET 101	Principles of Engineering Technology	3.0
ENGT 103	Introduction to Engineering Design Using Inventor	3.0
ENGT 116	Blueprint Reading and Production	4.0
MTT 180	Robotics for Computer Numerically Controlled Machines	3.0
Select one of the following:		3.0-5.0
ENGT 104	Principles of Aerospace Design Technology (4)	
ENGT 131	Design Fundamentals Including 3D Modeling (3)	
ET 102	Electronics for Engineering Technologists (3)	
MTT 151	Mastercam Introduction (3.5)	
WELD 120	Beginning Arc Welding (5)	
<b>Total Units</b>		<b>16-18</b>