Upon graduation, the graduates of the Mechanical Engineering Technology program will be able to:

•Identify and define problems in mathematic and scientific terms

•Produce graphic representations of designs using CAD software, Solid Modeling software, and pencil and paper methods.

•Select materials and determine component sizes and shapes to meet design criteria.

•Apply instruments to make measurements and analyze data from such measurements.

•Identify typical mechanical components and explain their function.

•Apply fundamental manufacturing processes using manual and automated machine tools.

•Recognize assumptions and limits of analysis to the application of technology, including social and ethical implications.

•Select and apply power generation and power transmission components including mechanical, pneumatic, hydraulic, thermal, and electrical types.

•Recognize the need to engage in lifelong learning, and to perform research or conduct investigations to continuously upgrade knowledge and skills.

•Communicate effectively, and work as part of a team.

As approved by the Mechanical Engineering Technology Advisory Committee.