MET Student Outcomes: AAS  BS

Program Outcomes for Mechanical Engineering Technology - these outcomes describe what units of knowledge or skills students are expected to acquire from the MET credit program to prepare them to achieve the program educational objectives. Graduates will have:

a. an ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined mechanical engineering technology activities for the Associate Degree, and an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities for the Bachelor Degree;

b. an ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge for the Associate Degree, and an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies for the Bachelor Degree;

c. an ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments for the Associate and Bachelor Degrees, and to apply experimental results to improve processes for the Bachelor Degree;

d. an ability to function effectively as a member of a technical team for the Associate Degree, and an ability to function effectively as a member or leader on a technical team for the Bachelor Degree;

e. an ability to identify, analyze, and solve narrowly defined engineering technology problems for the Associate Degree, and broadly-defined problems for the Bachelor Degree;

f. an ability to apply written, oral and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;

g. an understanding of the need for and an ability to engage in self-directed continuing professional development;

h. an understanding of and a commitment to address professional and ethical responsibilities, including a respect for diversity for both the Associate and the Bachelor Degrees, and for the Bachelor Degree, a knowledge of the impact of engineering technology solutions in a societal and global context;

i. a commitment to quality, timeliness, and continuous improvement;

j. an ability to apply specific program principles to the specification, installation, fabrication, test, operation, maintenance, sales, or documentation of basic mechanical systems for the Associate Degree, and an ability to apply specific program principles to the analysis, design, development, implementation, or oversight of more advanced mechanical systems or processes for the Bachelor Degree;
k. for the Bachelor Degree, an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives; and

l. for the Bachelor Degree, an ability to apply both technical and non-technical skills in solving problems.

This program is accredited by the Engineering Technology Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org). Graduates of the Mechanical Engineering Technology program will work with engineers in developing, manufacturing, testing and servicing mechanical components, equipment and systems.

June 1, 2015