

Manufacturing Engineering Technology

Educational Objectives and Outcomes

Manufacturing Engineering Technology Program Educational Objectives

MFGET OB1: Graduates will have the ability to support and manage significant manufacturing operations by applying concepts of metal manufacturing, statistics, process automation, computer-aided design and manufacturing and organizational management.

MFGET OB2: Graduates will have the skills needed to work effectively in teams and as an individual.

MFGET OB3: Graduates will possess the ability to use appropriate mathematical and computational skills needed for engineering technology applications.

MFGET OB4: Graduates will possess the ability to use oral, graphical, and written communication skills to present and exchange information effectively and to direct manufacturing activities.

MFGET OB5: Graduates will have the ability to think critically and identify, evaluate and solve complex technical and non-technical problems.

MFGET OB6: Graduates will have a sense of professionalism that allows them to become informed and participating citizens cognizant of ethics, civic duty, and social responsibility.

The stated program Objectives are reviewed by the Manufacturing Engineering Technology Advisory Committee, once per calendar year, to evaluate their capability to serve the needs of the constituencies.

Revised Fall 2006

Manufacturing Engineering Technology

Educational Objectives and Outcomes

Manufacturing Engineering Technology Program Educational Outcomes

MFGET OC1: Students will demonstrate an appropriate mastery in manufacturing process planning, tool design, metal casting, quality control and computer-aided design and manufacturing. (TAC/ABET Criteria achieved: a, c, j, k)

MFGET OC2: Students will demonstrate an understanding of fundamental applications of science and engineering principles. (TAC/ABET Criteria achieved: a, b, c)

MFGET OC 3: To participate in creative and critical thinking cross-discipline activities of manufacturing processes. (TAC/ABET Criteria achieved: c, d, f, k)

MFGET OC4: Develop the ability to function effectively on teams and be able to exchange ideas with fellow classmates. (TAC/ABET Criteria achieved: e, g, h)

MFGET OC5: Develop the ability to express ideas persuasively in written and oral form. (TAC/ABET Criteria achieved: c, g, i)

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