

BS in ENGINEERING TECHNOLOGY - MANUFACTURING Concentration

A. Program Educational Objectives

Program Educational Objectives – Bachelor of Science in Engineering Technology

1. Graduates manage projects from problem identification to hands on implementation.
2. Graduates function effectively on teams and communicate effectively in spoken, written, and graphical forms.
3. Graduates are proficient in the use of engineering technologies as tools to solve real world problems.
4. Graduates recognize professional, ethical, and social issues in practice.
5. Graduates demonstrate a commitment to quality and dependability.
6. Graduates stay current professionally.

Program Educational Objectives - Concentration in Manufacturing Engineering Technology

7. Graduates recognize opportunities and create solutions using up-to-date manufacturing technologies for a wide range of applications and provide leadership in developing solutions to industrial manufacturing problems.
8. Graduates with specialized background in manufacturing, design and implement systems for the manufacture of components, assemblies, and finished products while applying continuous improvement, new manufacturing criteria and new technologies.

B. Student Outcomes

Student Outcomes – Bachelor of Science in Engineering Technology

1. Students have the ability to design solutions for comprehensive engineering problems and support in the design of discipline specific systems and processes by using advanced knowledge and skills of contemporary mathematics, science, engineering and technology.
2. Students have the ability to communicate information in written, oral, and graphical forms as well as use technical literature.
3. Students have the ability to perform experiments, analyze and interpret results using test equipment and productivity software; and
4. Students have the ability to work as a team to deliver results in a timely manner.

Student Outcomes - Concentration in Manufacturing Engineering Technology. In addition to the outcomes stated above, manufacturing concentration graduates will demonstrate the following:

5. Students demonstrate the ability to apply relevant technologies of materials, applicable manufacturing processes, tooling, robotics/automation, production operations management and the ability to manage industrial operations.
6. Students demonstrate the ability to design and manufacture complex products and possess the ability to select processes and materials while focusing on sustainable market competitiveness.