Manufacturing Technology – Applied Manufacturing Option
Associate in Science
Course Descriptions

ENG 101 English Comp & Lit I

Credits: 3

Prerequisites: ENG 100

This course focuses on how to develop essential writing skills including organization, correctness, and support of ideas. A research project is required to produce a documented essay that integrates materials from Internet and traditional sources according to standard disciplinary format. Students develop and sharpen the interpretive and analytical skills necessary to evaluate the soundness and appropriateness of sources for their work.

ENG 102 English Comp & Lit II

Credits: 3

Prerequisites: ENG 101

This course employs literary texts to provide examples for students to continue and refine writing and reading skills. Assigned readings include plays, poems, novels, short stories, epic narratives, personal essays, and satire. Writing assignments emphasize students close reading skills and their interpretation and analysis of creative works.

MGT 101 Introduction to Business

Credits: 3

Prerequisites: A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score.

This course provides a broad overview of the business world. Students learn to apply basic business concepts and principles to a variety of business situations. Topics include business terminology, the legal forms of business organizations, the impact of the economy on business, and the basic functions of management including marketing, banking and financing, accounting, and technology.

MNT 217 Process Automation & Robotics

Credits: 3

Prerequisites: CIS 111, MNT110

This course provides students with an overview of the systems and concepts involved in today's highly automated manufacturing environments. Robotic systems, an important component of an automated system, are also studied. Topics include automation design, robotic systems, manufacturing execution systems (MES), statistical process control (SPC), and Visual Basic programming. Students learn and practice systematic troubleshooting, using a highly automated manufacturing system as well as robotic systems.