

AMEC - ADVANCED MECHATRONICS (AMEC)

AMEC U350 Advanced Problem Solving 3 Credit Hours

Theories and practical methods for solving complex equipment problems in manufacturing. Topics include system flow, machine state and logic, root cause analysis and communication of results. Work at a manufacturing location may be required. Two class and three laboratory hours per week.

Prerequisite(s): AAS degree in Mechatronics, Industrial Electronics, Automated Manufacturing or Engineering Technology degree or consent of department chair.

AMEC U360 Industrial Digital Communications 3 Credit Hours

Industrial machine communication protocols and devices. Topics include digital communication methods, implementations and applications of industrial communication, and digital data collection. Two class and three laboratory hours per week.

Prerequisite(s): AAS degree in Mechatronics, Industrial Electronics, or Engineering Technology degree or consent of instructor.

AMEC U370 Advanced Maintenance 3 Credit Hours

Methods, tools, and strategies for the maintenance of advanced manufacturing equipment. Topics include methods such as preventive and predictive maintenance, tools such as vibration analysis and strategies such as Total Productive Maintenance. Two class and three laboratory hours per week.

Prerequisite(s): AAS degree in Mechatronics, Industrial Electronics, or Engineering Technology degree or consent of instructor.