

Industrial Maintenance Technology, A.A.S.

(Code 985)

GRCC Program:

The Industrial Maintenance Technology program prepares students to install, adjust, troubleshoot, and repair a variety of industrial machinery used in manufacturing settings. Technicians may work in factories that manufacture, finish, or assemble many different types of products.

Students study the basic operations common to production equipment used in industry today. Electricity and electronics are emphasized because most modern manufacturing equipment is electrically powered. Pneumatics, hydraulics, and mechanical power are also covered.

This highly skilled trade offers many employment opportunities. Since each production facility has different needs, the program allows students to select technical electives specific to a particular production area.

First Year

First Semester (Suggested Sequence)		Credits
MN 199 Theory of Machine Operations		(3/4)
Technical Elective		(2/4)
MN 116 Basic Welding		(2/4)
EL 144 Basic Electricity and Electronics	OR	(4/6)
EL 106 Technical Electricity	AND	(4/6)
EL 107 Technical Electronics		(4/6)
EL 132 Electronics Mathematics	OR	(4/4)
MA 107 Inter. Algebra or Higher Math	OR	(4/4)
TE 103 Inter. Technical Mathematics	AND	(4/4)
TE 104 Advanced Technical Mathematics		(3/3)

Total Credits 15 Minimum

Second Year

Third Semester		Credits
EL 161 Introduction to Digital Logic		(3/4)
MN 113 Mechanical Power Transmission		(2/2.25)
Technical Elective		(2/4)
EN 100 College Writing	OR	(3/3)
EN 101 English Composition 1		(3/3)
Natural Science and Math Elective (Min of 4)		(4/6)

Total Credits 14 Minimum

Second Semester (Suggested Sequence)

HUM	Humanities Elective (min. of 3 credits)	(3/3)
EL 162	Control Systems	(2/3)
EL 163	Electrical Troubleshooting	(2/2)
EL 164	Programmable Logic Controllers	(2/3)
MN 217	Hydraulics	(4/6)
MN 218	Pneumatics	(3/4)

Total Credits 16 Minimum

Fourth Semester

EL 201	Industrial Electricity	(4/6)
EN 102	English Composition 2	(3/3)
PS 110	Survey of American Government	(3/3)
Technical Elective		(4/6)
WE_	Wellness Elective (min. of 1 credit)	(1/2)

Total Credits 15 Minimum

Total Credits: 60 Minimum