

Career Studies Certificates: Industrial Design; Industrial Maintenance Technician Basic

AREA: Industrial Design

LENGTH: This certificate can be completed in two semesters if the following conditions are met:

- Students are willing to enroll in day and evening classes
- Students must take classes in the semesters they are listed

PURPOSE: To introduce students to the principles of sound industrial design, including related mathematics and concepts

OCCUPATIONAL OBJECTIVES: equipment designer, product development, engineering technician, product engineer, assembler, and other related positions

Course#	Title	Credits
EGR 135	Statics for Engineering Technology ¹	3
EGR 136	Strength of Materials for Engineering Technology ²	3
MEC 111	Materials for Industry	3
ARC 130	Materials and Methods of Construction	3
MTH 115	Technical Mathematics I	3
MTH 116	Technical Mathematics II	3
	Total	18

¹Prerequisite for EGR 135 is MTH 115.

²Prerequisite for EGR 136 is EGR 135.

AREA: Industrial Maintenance Technician Basic

LENGTH: This certificate can be completed in two semesters if the following conditions are met:

- Students are willing to enroll in day and evening classes
- Students must take classes in the semesters they are listed

PURPOSE: To expose students to theory and application related to the maintenance of heating, air conditioning, electrical systems and motors and welding

OCCUPATIONAL OBJECTIVES: To prepare students for entry-level positions in industrial maintenance

Course#	Title	Credits
Fall Semester		
ELE 133	Practical Electricity I	3
SDV 101/100	Orientation to the Trades Profession	1
WEL 120	Introduction to Welding	3
Spring Semester		
MEC 120	Principles of Machine Technology	3
Internship	Internship or COOP	6
	Total	16