Industrial Mechanic
Certificate in Applied Science
Credit Requirements: 27 Semester Credit Hours
Evening

The Industrial Mechanic program prepares students for employment in industrial mechanics. This program teaches skills required for troubleshooting, maintenance and repair of mechanical systems.

Admission into this program requires qualifying scores on SAT, ACT or TTC’s placement test. High school graduation is not required if you are at least 18 years old.

IMT prefix courses are available based on demand. See your program advisor.

Recommended Sequence of Courses
First Semester – Fall
IMT 161 Mechanical Power Applications 4
IMT 210 Basic Industrial Skills I 3
IMT 211 Basic Industrial Skills II 3
Total 10

Second Semester – Spring
IMT 105 Mechanical Sketching 2
IMT 132 Hydraulics 2
IMT 133 Pneumatics 2
IMT 160 Preventive Maintenance 3
Total 9

Third Semester – Summer
IMT 124 Pumps 2
IMT 151 Piping Systems 3
IMT 163 Problem Solving for Mechanical Applications 3
Total 8

Admission into this program is open only to Youth Apprentice students that meet all of the requirements set forth by the Apprenticeship Office. Additional requirements are a valid driver’s license and qualifying scores on SAT, ACT or TTC’s placement test.

Recommended Sequence of Courses
First Semester – Fall
AUT 101 Engine Fundamentals 3
AUT 133 Electrical Fundamentals 3
Total 6

Second Semester – Spring
AUT 111 Brakes 3
AUT 131 Electrical Systems 3
Total 6

Third Semester – Fall
AUT 103 Engine Reconditioning 4
AUT 149 Ignition and Fuel Systems 4
Total 8

Fourth Semester – Spring
AUT 145 Engine Performance 3
AUT 241 Automotive Air Conditioning 4
Total 7

Landscape Design
Certificate in Applied Science
Credit Requirements: 16 Semester Credit Hours

The Landscape Design certificate program provides training for individuals involved in landscape design and installation. The program is useful for those with practical experience in landscape installation, but with little or no formal training in plant arrangements and plant selection. Students must see the Horticulture faculty for advising.

Admission into this program requires qualifying scores on SAT, ACT or TTC’s placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses
First Semester – Fall
HRT 106 Ornamentals 2
HRT 153 Landscape Construction 3
Total 5

Second Semester – Spring
HRT 102 Landscape Design 4
HRT 107 Woody Ornamentals 2
Total 6

Introduction to Automotive Servicing
Certificate in Applied Science
Credit Requirements: 27 Semester Credit Hours
Day

The Introduction to Automotive Servicing program prepares students for entry-level employment in the automotive servicing industry. This program teaches the introductory skills required for the diagnosis, maintenance and repair of passenger cars and light trucks through theory and shop instruction.
Third Semester – Summer
HRT 108  Annuals and Perennials  2
HRT 212  Commercial Landscape Design  3
Total 5

Recommended Sequence of Courses
First Semester
HRT 101  Introduction to Horticulture  3
HRT 106  Ornamentals  2
HRT 241  Turf Management  3
Total 8

Second Semester – Spring
HRT 107  Woody Ornamentals  2
MGT 120  Small Business Management  3
Total 5

Third Semester – Summer
HRT 108  Annuals and Perennials  2
HRT 254  Landscape Maintenance  2
Total 4

Welding Gas Metal Arc and Flux Cored Arc
Certificate in Applied Science
Credit Requirements: 24 Semester Credit Hours
Fall Semester Start
This certificate teaches beginning and intermediate welding students the principles and practices of gas metal arc and flux cored arc welding in preparation for entry into the welding fields of manufacturing, construction, transportation and maintenance.

Admission into this program requires qualifying scores on SAT, ACT or TTC’s placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses
First Semester – Fall
EGT 114  Welding Print Basics  2
WLD 110  Welding Safety and Health  1
WLD 118  Gas Metal Arc Welding Ferrous I  4
WLD 119  Gas Metal Arc Welding Ferrous II  1
WLD 141  Weld Quality  2
Total 10

Second Semester – Spring
EGT 117  Welding Print Principles  2
WLD 120  Flux Cored Arc Welding I  4
WLD 121  Flux Cored Arc Welding II  1
WLD 201  Welding Metallurgy  2
Total 9

Third Semester – Summer
WLD 122  Gas Metal Arc Welding Non-Ferrous I  4
WLD 123  Gas Metal Arc Welding Non-Ferrous II  1
Total 5