

# INDUSTRIAL TECHNOLOGY

## Overview

Rapid advancements in the Industrial Technology areas make the need for up-to-date education and training essential. TTC's Industrial Technology programs combine classroom study and hands-on training emphasizing skill development, related technical knowledge and general education.

TTC offers a wide array of associate degrees, diplomas and certificates. The associate degree programs require two years of study. The certificate programs require two to four semesters of study and are offered when sufficient interest is generated to support class-size groups. Any of the programs may be completed on a part-time basis, though it will require more time to do so.

## General Information

As with all TTC programs, students interested in Industrial Technology programs should consult with a faculty advisor to discuss program requirements, class times and frequency of offerings. For more information, call 843.574.6156.

## Cancellation Policy

TTC reserves the right to cancel courses due to inadequate enrollment.

## Programs of Study

### Associate Degree Programs

#### General Technology

- Air Conditioning/Refrigeration Mechanics
- Automotive Technology
- Basic Construction Trades
- Electrical Line Worker
- Electrician: Automation and Industrial
- Electrician: Industrial and Construction
- Engineering Design Graphics
- Industrial Maintenance Mechanics
- Machine Tool Technology
- Welding

#### Horticulture Technology

### Diploma Program

- Cosmetology

### Certificate Programs

- Air Conditioning/Refrigeration Advanced
- Air Conditioning/Refrigeration Beginning
- Air Conditioning/Refrigeration Mechanics

- Automatic Transmission Repair Specialist
- Automotive Brakes and Alignment Specialist
- Automotive Engine Performance Specialist
- Automotive Engine Repair Specialist
- Automotive Servicing
- Basic Construction Trades
- Basic Industrial Work Skills
- Computer Numerical Control Operations
- Cosmetology
- Electrical Line Worker – Third Class
- Electrical Line Worker – Advanced
- Electrician: Automated Controls
- Electrician: Construction
- Electrician: Industrial
- Esthetics
- Golf Course Maintenance
- Industrial Maintenance
- Industrial Mechanic
- Landscape Design
- Landscape Management
- Machine Tool Technology
- Nail Technology
- Welding Gas Metal Arc and Flux Cored Arc
- Welding Gas Metal Arc and Flux Cored Arc  
Advanced
- Welding Gas Tungsten Arc
- Welding Gas Tungsten Arc Advanced
- Welding Shielded Metal Arc
- Welding Shielded Metal Arc Advanced
- Woodworking

## General Technology

### Associate in Applied Science

The General Technology major allows students to select course work necessary to become multiskilled technicians. In addition to completing the College's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

For entry into this program the student must be a high school graduate or possess a GED and take the College's placement test or meet the College's SAT or ACT requirements. Automotive Technology students must have a valid driver's license.

## Air Conditioning/Refrigeration Course Display

Credit Requirements: 65 Semester Credit Hours

### Core Curriculum Requirements

#### Core

CPT 101	Introduction to Computers	3
<b>or</b>		
EGR 110	Introduction to Computer Environment	3
ENG 101	English Composition I	3
IDS 201	Leadership Development	3
<b>or</b>		
ELE HUM	Select one course from Humanities Electives on page B-3	3
ELE MAT	Select one course from Mathematics Electives on page B-3	3
ECO 210	Macroeconomics	3
<b>or</b>		
PSY 201	General Psychology	3
SPC 205	Public Speaking	3
<b>or</b>		
SPC 209	Interpersonal Communication	3

#### Primary Path

ACR 106	Basic Electricity for HVAC/R	4
ACR 108	Refrigeration Fundamentals	3
ACR 109	Tools and Service II	2
ACR 111	Gas Heating	3
ACR 122	Principles of Air Conditioning	5
ACR 131	Commercial Refrigeration	4
ACR 206	Advanced Electricity	2
ACR 210	Heat Pumps	4
ACR 224	Codes and Ordinances	2

#### Secondary Path

(These are suggested courses. Other courses may be substituted from other primary technical programs. See your program advisor.)

MGT 101	Principles of Management	3
MGT 120	Small Business Management	3
MKT 101	Marketing	3
MKT 130	Customer Service Principles	3

#### Additional Requirements

ELE GBS	Select two courses from Business Electives on page B-121	6
---------	--	---

## Air Conditioning/Refrigeration Mechanics Career Path

Credit Requirements: 65 Semester Credit Hours  
Day

### Recommended Sequence of Courses

#### First Semester – Fall

ACR 106	Basic Electricity for HVAC/R	4
ACR 108	Refrigeration Fundamentals	3
ACR 109	Tools and Service II	2
		<b>Total 9</b>

#### Second Semester – Spring

ACR 111	Gas Heating	3
ACR 122	Principles of Air Conditioning	5
ACR 206	Advanced Electricity	2
		<b>Total 10</b>

#### Third Semester – Summer

ACR 131	Commercial Refrigeration	4
ACR 210	Heat Pumps	4
ACR 224	Codes and Ordinances	2
		<b>Total 10</b>

#### Fourth Semester – Fall

CPT 101	Introduction to Computers	3
<b>or</b>		
EGR 110	Introduction to Computer Environment	3
ENG 101	English Composition I	3
IDS 201	Leadership Development	3
<b>or</b>		
ELE HUM	Select one course from Humanities Electives	3
ECO 210	Macroeconomics	3
<b>or</b>		
PSY 201	General Psychology	3
		<b>Total 12</b>

#### Fifth Semester – Spring

*MGT 101	Principles of Management	3
*MGT 120	Small Business Management	3
*MKT 101	Marketing	3
SPC 205	Public Speaking	3
<b>or</b>		
SPC 209	Interpersonal Communication	3
		<b>Total 12</b>

#### Sixth Semester – Summer

ELE MAT	Select one course from Mathematics Electives	3
*MKT 130	Customer Service Principles	3
ELE GBS	Select two courses from Business Electives	6
		<b>Total 12</b>