

**Second Semester – Spring**

BCT 138	Residential Wiring	5
BCT 151	Introduction to Residential Plumbing	3
BCT 203	Exterior and Interior Finishes	5
		<b>Total 13</b>

## Basic Construction Trades

**Certificate in Applied Science**

**Credit Requirements: 27 Semester Credit Hours**  
**Evening**

This certificate program teaches basic residential construction skills. A combination of credit courses is used to teach and build a house. The program prepares students for entry into the residential construction industry.

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**

BCT 102	Fundamentals of Building Construction	4
BCT 103	Construction Site Layout	4
BCT 105	Tool Usage and Safety	2
BCT 112	Construction Print Reading	2
		<b>Total 12</b>

**Second Semester – Spring**

BCT 138	Residential Wiring	5
BCT 106	Beginning Woodworking	2
		<b>Total 7</b>

**Third Semester – Summer**

BCT 151	Introduction to Residential Plumbing	3
BCT 203	Exterior and Interior Finishes	5
		<b>Total 8</b>

## Basic Industrial Work Skills

**Certificate in Applied Science**

**Credit Requirements: 26 Semester Credit Hours**

This certificate is designed to offer employability skills for the industrial environment and prepare the student for various entry-level positions at industrial and manufacturing work sites. Topics such as safety, communication, problem solving and computer use are introduced.

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 – Summer**

IMT 102	Industrial Safety	2
*CWE 114	Cooperative Work Experience	4
		<b>Total 6</b>

**Second Semester – Fall**

IMT 210	Basic Industrial Work Skills I	3
ENG 150	Basic Communications	3
		<b>Total 6</b>

**Third Semester – Spring**

IMT 163	Problem Solving for Mechanical Applications	3
IMT 211	Basic Industrial Work Skills II	3
		<b>Total 6</b>

**Fourth Semester – Summer**

QAT 110	Manufacturing Methods	3
CPT 101	Introduction to Computers	3
*CWE 122	Cooperative Work Experience	2
		<b>Total 8</b>

*\*Students may substitute the following for CWE 114 and CWE 122: a total of six credit hours from any of the following categories: IMT, WLD, ACR, MTT, EEM or QAT. Courses selected are subject to advisor approval.*

## Basic Machining and CNC Fundamentals

**Certificate in Applied Science**

**Credit Requirements: 30 Semester Credit Hours**

**Fall Semester/Evening Start**

This program introduces students to workplace safety, blueprint reading, precision measuring, basic conventional machining and CNC operations including set-up and programming. Students are prepared for entry-level employment in the metal-working industry.

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