

## Associate of Applied Science – Industrial Technology

The UACCB Industrial Technology program provides students with the knowledge and skills necessary for successful employment as entry-level Industrial Technicians in a variety of industries. Students enrolled in the Industrial Technology program specialize in one of two disciplines: welding or Heating, Ventilation, and Air Conditioning (HVAC). The program includes Certificates of Proficiency, Technical Certificates, and an Associate of Applied Science degree. All credit hours earned in an Industrial Technology Certificate of Proficiency program count toward the corresponding credit hour requirements for an Industrial Technology Technical Certificate or A.A.S. degree. Likewise, all credit hours earned in an Industrial Technology Technical Certificate program count toward the corresponding credit hour requirements for an Industrial Technology A.A.S. degree.

### A.A.S. – Industrial Technology (60 hours)

#### English/Communications – Seven (7) hours

- ENG 1004 Writing for the Workplace
- ENG 1103 English Composition I

#### Math – Three (3) hours required

- MTH 1003 Technical Math
- Or any higher level math course.*

#### Computer Sciences – Three (3) hours required

- CIS 1053 Computer Software Applications

#### Social Sciences – Three (3) hours required

- Choose from any Social Science listed in the UACCB General Education Core Curriculum*

#### Major Courses – Thirty-two (32) hours required

- IND 1013 Technical Methods
- IND 1023 Engineering Drawings
- IND 1033 DC Electricity
- (Continued in next column)*

- IND 1043 AC Electricity
- IND 2003 Industrial Safety
- IND 2013 Electric Motor Control
- IND 2023 Technical Physics
- IND 2033 AutoCAD
- IND 2054 Programmable Logic Controllers
- IND 2104 Industrial Technology Capstone

#### Technical Courses – Twelve (12) hours required

- Choose either Welding or HVAC concentration*
- IND 1104 Welding I
- IND 1204 Welding II
- IND 1304 Welding III
- OR-**
- IND 1053 HVAC Fundamentals
- IND 1153 HVAC Controls
- IND 1253 HVAC Troubleshooting
- IND 1073 Introduction to Sheet Metal

### Technical Certificate – Welding Technology (27 hours)

#### General Education Core – Seven (7) hours required

- ENG 1004 Writing for the Workplace
- MTH 1003 Technical Math

#### Welding Core – Twenty (20) hours required

- IND 1013 Technical Methods
- IND 1023 Engineering Drawings
- IND 1104 Welding I
- IND 1204 Welding II
- IND 2033 AutoCAD
- IND 2003 Industrial Safety

### Technical Certificate – Air Conditioning, Heating, and Refrigeration Technology (28 hours)

#### General Education Core – Seven (7) hours required

- ENG 1004 Writing for the Workplace
- MTH 1003 Technical Math

#### Air Conditioning, Heating, and Refrigeration Core – Twenty-one (21) hours required

- IND 1013 Technical Methods
- IND 1033 DC Electricity
- IND 1043 AC Electricity
- IND 1053 HVAC Fundamentals
- IND 1153 HVAC Controls
- IND 1253 HVAC Troubleshooting
- IND 2003 Industrial Safety

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**Certificate of Proficiency – Welding (13 hours)**

- IND 1013 Technical Methods
- IND 1023 Engineering Drawings
- IND 1104 Welding I
- IND 2003 Industrial Safety

**Certificate of Proficiency – HVAC (18 hours)**

- IND 1013 Technical Methods
- IND 1033 DC Electricity
- IND 1043 AC Electricity
- IND 1053 HVAC Fundamentals
- IND 1153 HVAC Controls
- IND 1253 HVAC Troubleshooting