

**ASSOCIATE OF SCIENCE, INDUSTRIAL MAINTENANCE ELECTRICAL AND INSTRUMENTATION**  
STUDY PREPARES STUDENTS FOR ENTRY-LEVEL POSITIONS IN INDUSTRY AND SERVICE OCCUPATIONS REQUIRING SKILLS IN INDUSTRIAL MAINTENANCE ELECTRICAL AND INSTRUMENTATION. THIS PROGRAM IS BASED ON NATIONALLY RECOGNIZED INDUSTRY STANDARDS

### Associate of Science

- \* IMMT 60 - Fundamentals of Industrial Maintenance Mechanics
- \* IMMT 62 - Oxyfuel Cutting
- \* IMMT 64 - Craft-Related Quantitative Skills
- \* IMMT 66 - Construction Drawings
- \* IMMT 68 - Gaskets, Packing, Pumps, Drivers, Valves, and Lubrication
- \* IMMT 69 - Material Handling, Hand Rigging, Mobile and Support Equipment
- \* IMMT 80A - Alternating Current
- \* IMMT 80B - E & I Test Equipment
- \* IMMT 80C - Flow, Pressure, Level, & Temperature
- \* IMMT 80D - Process Quantitative Skills
- \* IMMT 80E - Tubing Installation & Testing
- \* IMMT 80F - Introduction to Instrument Drawings & Documents
- \* BCTT 54 - Safety Orientation
- \* ELCT 70A - Electrical Safety and & Hand bending
- \* ELCT 70B - Fasteners and Electrical Theory
- \* ELCT 70C - Electrical Test Equipment, NEC, Raceways, Boxes, Fittings, and Conductors
- \* ELCT 70D - Introduction to Electrical Blueprints and Residential & Commercial Wiring

Minimum Units Required in Major: 23

\*General Education Requirements: 27

\*Electives : 10

Total Units required for A.S. : 60

\*Please see the inside panel for general education requirements & suggested elective courses.

This information is based on the 2016- 2017 College Catalog.

## Career & Technical Education (CTE)

### Workforce and Economic Development Department



**BUILDING A STRONG WORKFORCE**

*Live, Learn & Earn Locally*

This program has been funded in part by the Trade Adjustment Community College & Career Training (TAACCT) Grant implemented by the U.S. Department of Labor. Barstow Community College received \$1,155,132 as a sub-recipient of a regional grant. This project is an equal opportunity employer/program with auxiliary aids and services that are available upon request to individuals with disabilities.

## Barstow

### Community College

#### Career & Technical Education

#### Associates Degree

### Industrial Maintenance

### Electrical and

### Instrumentation

**\*Certificate Program also available**



#### Main Campus

2700 Barstow Rd  
Barstow, CA 92311

#### CTE

1501 State St  
Barstow, CA 92311

[voiced@barstow.edu](mailto:voiced@barstow.edu)

**(760) 252-2411 ext. 6799**

## About BCC Career & Technical Education

Barstow Community College offers Associate Degrees and/or Certificates for the following Vocational programs:

- Accounting
- Administration of Justice
- Automotive / Diesel Technology
- Business
- Business Information Systems
- Computer Information Systems
- Child Development
- Cosmetology
- Electrical Technology
- Industrial Maintenance & Technology
- Supply Chain Management
- Management
- Photography
- Welding

### Student Success Steps:

STEP 1: Apply to Barstow Community College

STEP 2: Apply for FAFSA or DREAM Act

STEP 3: Orientation

STEP 4: Assessment

STEP 5: Meet with an Advisor

STEP 6: Enroll in Classes

## General Education Requirements

<b>Natural Sciences - Complete one course</b> ASTR 1, 1L, BIOL 1, 2, 4, 5, 8, 10, 10L, 11; <b>CHEM 1</b> , GEOG 1L-5, OCEA 1, PHSC 1, 2	<b>3 Units</b>
<b>Social and Behavior Sciences - Complete one course</b> ADJU1, 8, ANTH 1, 4, ARCH 1, 5, 10, <b>BADM 1</b> , 2, 5; ECON 1, 2, 5, ETHN 1, 4; GEOG 2, HIST1A, 1B, 2A,2B, 3-5, 7, 8A, 8B, 12, 50, POLI 1, 2, 3, <b>PSYC 1-6</b> , 11, 12, 14, 15, 33, <b>SOCI 1-3</b> , 8, 12, 14, 15	<b>3 Units</b>
<b>PE activity courses or ATHL courses</b> 1 - 3 Units from the following: <b>1 unit from any PE activity course</b> or ATHL course. AHLT 51, 63, 64 or valid/ current American Heart and Safety Institute CPR and ARC or AHS First AID card. <b>HEAL 2</b> , PELC 1, 2, 3	<b>2-4 Units</b>
<b>American Institutions - Complete one course</b> <b>POLI 1</b> , HIST 2A, 2B, 4	<b>3 Units</b>
<b>Communication - Complete one course</b> <b>SPCH 1</b> , 3	<b>3 Units</b>
<b>English</b> ENGL 1A	<b>3 Units</b>
<b>Mathematics</b> MATH 55, 1-3, 4ABC, 5	<b>3 Units</b>
<b>Orientation</b> <b>ORIE 1</b> or PSYC 5(May be waived with official transcript transferring 15+ semester units.	<b>3 Units</b>

## Recommended General Education & Elective Courses

WELD 57 - WELDING FABRICATION & PROJECTS	3 Units
CSIS 1 - COMPUTER CONCEPTS	4 Units
<b>Recommended General Education Requirements are in bold</b>	

### Projected Course Offerings

<u>Fall Even years</u>	<u>Fall Odd years</u>
IMMT 80A IMMT 80B	IMMT 70 IMMT 71
IMMT 80C IMMT 80D	IMMT 73 IMMT 74
IMMT 80E IMMT 80F	IMMT 75 IMMT 76
	IMMT 77
<u>Spring Even years</u>	<u>Spring Odd years</u>
ELCT 70A ELCT 70B	IMMT 60 IMMT 62
ELCT 70C ELCT 70D	IMMT 64 IMMT 66
ELCT 70E	IMMT 68 IMMT 69
	BCTT 54

### Please contact us for more information

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2700 Barstow Rd  
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**CTE**  
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Barstow, CA 92311

**Phone**  
(760) 252-2411 ext. 6799

Gainful Employment Information:

<http://www.barstow.edu/Programs-Study.html>