

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement builds the skills required to provide professional and quality workmanship in the construction industry. The core curriculum stresses the theory and application of rough and finish electrical, low-voltage, photovoltaic, plumbing, weatherization, or Exploratory depending on which trade the student chooses, for residential and commercial construction. Instruction includes classroom and laboratory course work.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Read construction prints, to include: site, foundation, floor and structural plans, sectional and detail views and electrical, low-voltage, or plumbing plans.
- Calculate electrical, low-voltage, photovoltaic, plumbing, or weatherization construction related formulas.
- Identify the equipment, material and/or systems necessary for any given residential or commercial electrical, low-voltage, photovoltaic, plumbing, or weatherization situation.
- Interpret electrical, low-voltage, photovoltaic, plumbing or weatherization building codes.
- Explain how to troubleshoot and repair problems that arise in electrical, low-voltage, photovoltaic, plumbing, or weatherization systems.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

Continued from previous column.

	CR	SEMESTER
COMMUNICATIONS:	3	_____
COM 115		

FOR PLUMBING:

	CR	SEMESTER
BTF5 110B Fire Sprinkler Theory and Applications 1	3	_____
BTP 115B Plumbing Theory and Applications 1	3	_____
BTP 120B Plumbing Theory and Applications 2	3	_____
BTP 130B Plumbing Theory and Applications 3	3	_____
BTP 210B Plumbing Theory and Applications 4	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
CONS 120B Printreading and Specifications	3	_____
MATH 104B Applied Mathematics or above (except MATH 111B, 115B, 122, 123)	3	_____
SCT 101B Fundamentals of Sustainability	3	_____
SCT 105B Sustainable Construction Materials	3	_____

FOR WEATHERIZATION:

	CR	SEMESTER
BTW 101B Basic Weatherization	4	_____
BTW 103B Blower Door and Combustion Appliance Safety	2	_____
BTW 105B Lead and Mold Safety	2	_____
BTW 201B Building Performance	4	_____
SCT 210B Sustainable Technology	3	_____

FOR ELECTRICAL:

BTE 116B Electrical Theory and Applications 1	3	_____
BTE 120B Electrical Theory and Applications 2	3	_____
BTE 130B Electrical Theory and Applications 3	3	_____
BTE 210B Electrical Theory and Applications 4	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____

FOR EXPLORATORY:

AC 101B Introduction to HVAC and Refrigeration	3	_____
BTE 116B Electrical Theory and Applications 1	3	_____
BTLV 110B Low-Voltage Theory and Applications 1	3	_____
BTP 115B Plumbing Theory and Applications 1	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____

FOR LOW-VOLTAGE TECHNOLOGY:

BTLV 110B Low-Voltage Theory and Applications 1	3	_____
BTLV 120B Low-Voltage Theory and Applications 2	4	_____
BTLV 130B Low-Voltage Theory and Applications 3	4	_____
BTLV 210B Low-Voltage Theory and Applications 4	5	_____

Computation included in MATH 104B

Human Relations included in SCT 105

FOR PHOTOVOLTAIC TECHNOLOGY:

BTE 116B Electrical Theory & Applications 1	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____
BTPV 102B Photovoltaic Design and Sales	4	_____
BTPV 201B Photovoltaic Onsite Training	4	_____

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CTBUTR-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

Guided Pathway 2014-2015
COA CONSTRUCTION TECHNOLOGY
 BUILDING TRADES- ELECTRICAL
 31 Credits

First Semester <i>Fall</i>		<i>Credits</i>		<i>Completed</i>
BTE 116B	Electrical Theory and Applications 1	3	Fall Only	_____
CONS 120B	Printreading and Specifications	3		_____
MATH 104B	Applied Mathematics	3		_____
Total		9		

Second Semester		<i>Credits</i>		
BTE 120B	Electrical Theory and Applications 2	3	Spring Only	_____
COM 115	Applied Communication	3		_____
SCT 105B	Sustainable Construction Materials	3		_____
Total		9		

Third Semester		<i>Credits</i>		
BTE 130B	Electrical Theory and Applications 3	3	Fall Only	_____
SCT 101B	Fundamentals of Sustainability	3		_____
Total		6		

Fourth Semester		<i>Credits</i>		
BTE 210B	Electrical Theory and Applications 4	3	Spring Only	_____
BTPV 101B	Photovoltaic Fundamentals	4		_____
Total		7		

Guided Pathway 2014-2015
COA CONSTRUCTION TECHNOLOGY
 BUILDING TRADES- PLUMBING
 30 Credits

First Semester <i>Fall</i>		<i>Credits</i>		<i>Completed</i>
BTP 115B	Plumbing Theory and Applications 1	3	Fall Only	_____
CONS 120B	Printreading and Specifications	3		_____
MATH 104B	Applied Mathematics	3		_____
Total		9		

Second Semester		<i>Credits</i>		
BTP 120B	Plumbing Theory and Applications 2	3	Spring Only	_____
COM 115	Applied Communication	3		_____
SCT 105B	Sustainable Construction Materials	3		_____
Total		9		

Third Semester		<i>Credits</i>		
BTP 130B	Plumbing Theory and Applications 3	3	Fall Only	_____
SCT 101B	Fundamentals of Sustainability	3		_____
Total		6		

Fourth Semester		<i>Credits</i>		
BTFS 110B	Fire Sprinkler Theory and Applications 1	3	Spring Only	_____
BTP 210B	Plumbing Theory and Applications 4	3		_____
Total		6		