CONSTRUCTION TECHNOLOGY – BUILDING TRADES EMPHASIS — 30 Credits

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):

	CR	SEMESTER
COMMUNICATIONS: COM 115	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

		CR	SEMESTER
CONS 120B	Printreading and Specifications	3	_____
MATH 116	Technical Mathematics or above (except MATH 122, 123)	3	_____
SCT 101B	Fundamentals of Sustainable Construction	3	_____
SCT 105B	Sustainable Construction Materials	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 LOW-VOLTAGE TECHNOLOGY:			
BTLV 110B	Low-Voltage Theory and Applications 1	3	_____
BTLV 120B	Low-Voltage Theory and Applications 2	3	_____
BTLV 130B	Low-Voltage Theory and Applications 3	4	_____
BTLV 210B	Low-Voltage Theory and Applications 4	5	_____
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.

Continued from previous column.

		CR	SEMESTER
FOR PLUMBING:			
BTFS 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	_____
FOR WEATHERIZATION:			
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 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	_____

Computation included in MATH 116

Human Relations included in SCT 105

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.