

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This Associate of Applied Science Degree 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 or weatherization, depending on which trade the student chooses, for residential and commercial construction. Instruction includes classroom and laboratory course work. Along with special program courses, academic skills emphasizing math, science and human relations components are stressed to prepare students to meet the challenges common in the workplace.

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 (26 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: PHIL 135	3	_____
MATHEMATICS: MATH 116 or above (except MATH 122, 123)	3	_____
SCIENCE: EGG 131, GEOG 103	7	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (34 Credits):

	CR	SEMESTER
CONS 120B Printreading and Specifications	3	_____
CONS 205B Construction Site Safety OSHA Standards	3	_____
CONS 288B Quality Control of Construction Waste	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	_____
BTLV 110B Low-Voltage Theory and Applications 1	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____

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FOR LOW-VOLTAGE TECHNOLOGY:

BTE 116B Electrical Theory and Applications 1	3	_____
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:

BI 107B Introduction to Energy Conservation Code	1	_____
BTE 116B Electrical Theory and Applications 1	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____
BTPV 102B Photovoltaic Designs and Sales	4	_____
BTPV 201B Photovoltaic Onsite Training	4	_____
SCT 113B Renewable Energy Efficiency	3	_____

FOR PLUMBING:

BTFS 110B Fire Sprinkler Theory and Applications 1	3	_____
BTFS 210B Fire Sprinkler Theory and Applications 2	4	_____
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:

BI 107B Introduction to Energy Conservation Code	1	_____
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	_____
BUS 102B Entrepreneurship and Innovation	3	_____
SCT 210B Sustainable Technology	3	_____

Continued in next column.

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.

60
Total Credits

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