

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement prepares students to inspect and oversee the construction of commercial and residential buildings, to include: sustainable (green) construction, photovoltaic installation and weatherization. Students learn proper procedures and materials that comply with plans, specifications, building codes, energy audits and the LEED rating system. Students are prepared for employment as construction estimators, project managers, green specialist, energy auditors and other supervisory positions in the construction industry.

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

Construction Management:

- Comprehend items, elements or systems in a construction project by manually and visually identifying what is necessary for its construction, accurately calculate the quantities needed and estimate digitally by computer its total installed cost.
- Describe the structure of the Nevada court system, identify the main elements and key dates of Nevada lien laws and describe the main elements of an enforceable construction contract.

Photovoltaic:

- Comprehend and utilize formulas used in the calculation of phases of electrical work.
- Comprehend the equipment necessary for any given residential, commercial or industrial electrical situation.

Sustainable Construction Technology:

- Comprehend green building construction and describe the role of USGBC, LEED standards and the LEED rating system.
- Compare the advantages of utilizing green construction materials over the more conventional construction materials.

Weatherization:

- Comprehend and utilize safety equipment and systems used to perform weatherization work.
- Comprehend and perform testing for gas-fired and oil-fired system, appliances, proper blower door techniques, CO levels and for gas leaks.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (34 Credits):

	CR	SEMESTER
ADT 130B Fundamentals of Green Architecture	3	_____
CONS 105B Construction OSHA Standards	1	_____
CONS 108B Construction Materials and Methods	3	_____
CONS 120B Printreading and Specifications	3	_____
MATH 116 Technical Mathematics	3	_____
SCT 101B Fundamentals of Sustainable Construction	3	_____

FOR CONSTRUCTION MANAGEMENT:

BI 101B Introduction to Building Codes	4	_____
CONS 121B Principles of Construction Estimating	3	_____
CONS 221 Construction Estimating II	3	_____
CONS 281B Construction Planning, Scheduling and Control	3	_____
CONS 282B Construction Law	3	_____
CONS 286B Construction Management and Analysis	3	_____

Continued in next column.

Continued from previous column.

	CR	SEMESTER
FOR PHOTOVOLTAIC:		
CONS 130B Construction Electricity	3	_____
BTPV 101B Photovoltaic Electrical I	4	_____
BTPV 102B Photovoltaic Electrical II	4	_____
BTPV 201B Photovoltaic Fundamentals and Methods	4	_____
SCT 113B Energy Efficiency Theory and Applications	3	_____

FOR SUSTAINABLE CONSTRUCTION TECHNOLOGY:

SCT 105B Green Building Trade Systems	3	_____
SCT 113B Energy Efficiency Theory and Applications	3	_____
SCT 201B Sustainable Construction of New Buildings	3	_____
SCT 202B Sustainable Construction of Existing Buildings	3	_____
SCT 210B Sustainable Technology	3	_____
SCT 290B Legal Development of Sustainable Construction	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	_____
BUS 102B Entrepreneurship and Innovation	3	_____
CONS 288B Quality Control of Construction Waste	3	_____

Computation included in MATH 116

Human Relations included in ADT 130B

37
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.