



Building Construction Technology

Associate in Applied Science Degree
Certificate of Proficiency

Program **BLDG.CONSTR.AAS**
Certificate **BLDG.CONSTR.CERT**
CIP 150101

The Building Construction Technology degree program prepares graduates for careers in the building construction industry in field and office positions with architects, engineers, or construction firms.

PROGRAM OUTCOMES

- Understand drafting and design standards used in the building construction industry to interpret construction documents and drawings;
- Interpret construction documents for conformity with construction codes and regulations;
- Prepare cost estimates, performing quantity take-offs and developing detailed project proposals and documentation;
- Identify, execute, and enforce construction safety standards on the job site;
- Demonstrate knowledge of the science of materials and methods of construction as they apply to the Construction Specifications Institute (CSI) Divisions;
- Identify established surveying procedures for the layout of a project in accordance with construction document drawings and site information;
- Demonstrate knowledge of overall field administration – prepare construction project schedules and maintain field records.

Students may study full-time or part-time. Admission to the program requires a high school diploma or its equivalent with one year of algebra.

Students wishing to transfer and pursue a bachelor's degree are encouraged to meet with the program coordinator to select courses that reflect those in Construction Management B.S. degree programs at four-year institutions.

The certificate program in Building Construction Technology is an opportunity for those working in the varied fields of construction, or construction documentation, to update their knowledge and skills in building construction operations, management, or construction office administration.

Students may study full-time or part-time. Admission to the program requires a high school diploma or its equivalent with one year of algebra.

PROGRAM OUTCOMES

- Understand drafting and design standards used in the building construction industry;
- Demonstrate knowledge of materials and methods of construction;
- Identify established surveying procedures to layout projects in accordance with construction document drawings and site information.

A.A.S. Curriculum

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER		
BCT 101	Construction Graphics (2/2)	3
BCT 110	Building Construction Materials and Methods I (3/0)	3
DRA 191	Intro to Building Information Modeling (1/2)	2
ENG 101	English Composition I (3/0)	3
MAT —	Mathematics elective ¹	3-4
SECOND SEMESTER		
BCT 112	Building Construction Materials and Methods II (3/0)	3
CIV 106	Mechanics (3/0)	3
CSW 100	College Success and Personal Wellness (2/0)†	2
ENG 102	English Composition II (3/0)	3
PHY 101	College Physics I (3/3)	4
THIRD SEMESTER		
BCT 104	Codes for Construction and Design (3/0)	3
BCT 234	Construction Contracts and Specifications (3/0)	3
CIV 101	Surveying I (2/3)	3
— —	Science, Technology, OR Business elective ²	3-4
— —	General Education elective	3
FOURTH SEMESTER		
BCT 232	Construction Estimating (3/0)	3
BCT 236	Construction Administration and Management (3/0)	3
— —	Math, Science OR Technology elective ^{1,2}	4
— —	Science, Technology, OR Business elective ²	3-4
— —	General Education elective	3
		60-63

¹ Select mathematics electives in consultation with an academic advisor.

² In consultation with an academic advisor, select from ACC 111; BUS 107; CHE 101; CIV 102, 227, 228, 229; ECO 111, 112; PHY 102.

† Some exemptions apply. Consult academic advisor for details.

Certificate Curriculum

Code	Course (lecture/lab hours)	Credits
BCT 101	Construction Graphics (2/2)	3
BCT 110	Building Construction Materials and Methods I (3/0)	3
BCT 112	Building Construction Materials and Methods II (3/0)	3
CIV 101	Surveying I (2/3)	3
DRA 191	Intro to Building Information Modeling (1/2)	2
ENG 101	English Composition I (3/0)	3
MAT —	Mathematics elective ¹	3-4
— —	Technical electives ²	9-11
— —	Elective	3
		32-35

¹ Select in consultation with an academic advisor.

² In consultation with an academic advisor, select from BCT 104, 112, 232, 234, 236; CIV 102; DRA 190.