

CONSTRUCTION TECHNOLOGY, A.A.S.

Juneau

The Construction Technology program provides a course of student in various aspects of residential construction that prepares students for entry into the construction trades. The Construction Technology, A.A.S. degree requires a minimum of 60 credit hours.

There are several Occupational Endorsements (OE) that a Construction Technology student may obtain while completing courses in the A.A.S. program, including the Exterior Finishes, OE; Interior Finishes, OE; and Framing, OE.

The Construction Technology program prepares students for a variety of entry-level positions, such as apprentice for building contractor, facility maintenance technician, drafting technician, building inspector/plan reviewer, and for continuation into professional degree programs such as construction management, engineering and architecture.

Requirement	Hours
Minimum Credit Hours	61
General Education Requirements	16
Major Requirements	45

Code	Title	Credits
General Education Requirements		
<i>Written Communication Skills</i>		
WRTG S111	*Writing Across Contexts	3
WRTG S211 or WRTG S212	*Writing and the Humanities *Writing and the Professions	3
<i>Oral Communication Skills</i>		
Select one of the following: 3		
COMM S111	*Fundamentals of Oral Communication ¹	
COMM S235	*Small Group Communication and Team Building ¹	
COMM S237	*Interpersonal Communication ¹	
COMM S241	*Public Speaking ¹	
<i>Computational Skills</i>		
MATH S105	Intermediate Algebra	4
<i>Other Skills</i>		
Advisor approved GERS ² 3		
Major Requirements		
ACCT S100	Recordkeeping for Small Businesses	3
BA S166	Small Business Management	3
CT S100	Woodworking I	3
CT S135	Residential Wiring	3
CT S102	Introduction to the Construction Trades	1

CT S103	Construction Tools and Materials	1
CT S104	Construction Safety: OSHA 10-Hour Training	1
CT S121	Light Wood Frame Construction	1
CT S121L	Light Wood Frame Construction Lab	2
CT S140	Residential Plumbing and Heating	3
CT S170	Residential Design, Codes and Standards	3
CT S175	Introduction to Computer Aided Drafting	3
CT S201	Residential Building Science	3
CT S212	Interior Finish Carpentry	1
CT S212L	Interior Finish Carpentry Lab	2
CT S214	Exterior Finish Carpentry	1
CT S214L	Exterior Finish Carpentry Lab	2
CT S227	Residential Construction Planning and Estimating	3
CT S230	Residential Mechanical Ventilation	3
Advisor approved Elective		3
Total Credits		61

¹ Grade C 2.00 or better

² Humanities, social sciences, mathematics, or natural sciences. See General Education Requirements (<http://catalog.uas.alaska.edu/general-education-requirements/>).

Upon completion, students will be able to:

1. Students will operate safely in a construction project environment.
2. Students will demonstrate the appropriate use of hand and power tools.
3. Student will identify, select, and install appropriate materials for interior and exterior finishes.
4. Students will identify software and hardware needed to manage computer generated drawings, accounting practices, and planning and estimating for residential construction business ventures.
5. Students will design a residential structure in accordance with building codes and best building practices for a cold maritime environment.
6. Students will create plumbing, electrical, and ventilation systems for a single family dwelling.