

**University of Alaska Southeast
Assessment Plan**

Department/School: *Career Education*

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Program Name: *AAS Construction Technology*

Contact Name: *Marquam George*

marquam.george@uas.alaska.edu

MISSION STATEMENT

Construction Technology at UAS is dedicated to providing quality learning opportunities in a supportive environment where construction students can learn new skills or improve existing skill levels. Construction Technology provides the knowledge, tools and experiences that enable students to attain employment, develop professionally, and experience personal growth and enrichment.

1. Student Learning Goals

Introduction:

Construction Technology will provide the education and training to meet the needs of the residential construction industry within the cold maritime climate of Southeast Alaska. AAS graduates will have a comprehensive basic understanding of Construction Technology. Graduates will realize these goals by meeting the competency requirements embedded in each specific program and GER course. Program competencies will be defined, in collaboration with our program industry advisory board, by the Construction Technology Mission Statement.

The UAS 2011- strategic-plan will provide an institutional framework for the program.

Goal 1:

Construction Technology AAS graduates will attain employment in the residential construction or related fields, and/or will continue in education in construction or related fields.

Goal 2:

Construction Technology graduates will demonstrate proficiency in the program requirements and the criteria outlined in the University's basic six competencies.

2. Exit Outcomes

For each goal exit outcomes will be established within the following basic areas. Graduates will be expected to demonstrate competencies in each area:

Goal One Outcomes:

- 1.1 Graduates will be knowledgeable about basic job safety; general construction site safety, personal protection equipment, good housekeeping, scaffolds and ladders, lifting and carrying, fire protection, first aid, electrical and chemical safety.
- 1.2 Graduates will demonstrate the ability to apply construction related techniques, skills, and tools use to varying construction projects.
- 1.3 Graduates will demonstrate an understanding of basic drafting and design skills. Designs will express an understanding of buildings as a system which includes, foundations, framing, building enclosures, mechanical, electrical, HVAC, and plumbing systems.
- 1.4 Graduates will have the skills to safely perform residential construction tasks in the categories of foundations layout, exterior and interior rough framing, finish carpentry, basic plumbing and electrical.
- 1.5 Graduates will understand basic construction management including; planning, scheduling, estimating, and accounting as they apply in small business practices.

Goal Two Outcomes:

- 2.1 Graduates will be able to effectively communicate using the professional language and concepts of construction technology. Where applicable this will include utilizing computer skills.
- 2.2 Graduates will be able to effectively apply basic analytical skills and mathematical reasoning in solving construction technology problems. Where applicable, computer technology will be used to assist in solving problems and formatting answers.
- 2.3 Graduates will be able to draw on a variety of information sources to assist them in communicating, analyzing and solving construction technology problems.
- 2.4 Graduates will learn the fundamentals of professional behavior, responsibility, good work habits, and ethical decision making.
- 2.5 Graduates will be able to utilize a critical thinking approach to solving construction problems.

UAS Construction Technology Outcome Map

UAS CONSTRUCTION TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE DEGREE STUDENT OUTCOME MAPPING		Major Requirements (45 credits)																		
		CT 100	CT 120	CT 135	CT 140	CT 170	CT 175	CT 201	CT 222	CT 223	CT 225	CT 226	CT 230	ACCT 100	BA 166	Elective	General Education Requirements (16 credits)			
		Woodworking 1 (3)	Basic Construction Techniques (3)	Residential Wiring (3)	Residential Plumbing and Heating (3)	Residential Design, Codes and Standards (3)	Introduction to AutoCAD (3)	Cold Climate Construction (3)	Building Construction I (3)	Building Construction II (3)	Construction Planning and Scheduling (3)	Construction Estimating (3)	Residential Mechanical Ventilation (3)	Recordkeeping for Small Business (3)	Small Business Management (3)	Technical or Vocational Elective (3)	Written Communication Skills (6)	Oral Communication Skills (3)	Computational Skills (4)	Advisor Approved General Education Req. (3)
I - Introduce, D - Develop, P- Proficiency																				
GOAL 1: PROGRAM COMPETENCIES																				
STUDENT LEARNING OUTCOMES																				
1.1	Graduates will be knowledgeable about basic job safety; general construction site safety, personal protection equipment, good housekeeping, scaffolds and ladders, lifting and carrying, fire protection, first aid, electrical and chemical safety.		ID	ID	I	I			ID	IDP	I		I			I				
1.2	Graduates will demonstrate the ability to apply construction related techniques, skills, and tool use to varying construction projects.		ID	ID	I	I			ID	IDP			ID			I				
1.3	Graduates will demonstrate an understanding of drafting and design. Designs will express an understanding of buildings as a system which include, foundation, framing, building enclosure, mechanical, electrical, HVAC, and plumbing systems.				I	I	ID	ID	I	I	ID	IDP	IDP			ID				
1.4	Graduates will have the skills to safely perform residential construction tasks in the categories of foundation layout, exterior and interior rough framing, basic plumbing and electrical and finish carpentry.		I	I	I				ID	IDP										

UAS Construction Technology Outcome Map

		CT 100	CT 120	CT 135	CT 140	CT 170	CT 175	CT 201	CT 222	CT 223	CT 225	CT 226	CT 230	ACCT 100	BA 166	Elective																							
I - Introduce, D - Develop, P- Proficiency																																							
1.5	Graduates will understand basic construction management including; planning, scheduling, estimating and accounting as they apply in small business practices.					I					ID	ID		IDP	IDP																								
GOAL 2: UNIVERSITY BASIC COMPETENCIES																																							
STUDENT LEARNING OUTCOMES																																							
2.1	Graduates will be able to effectively communicate using the professional language and concepts of construction technology. Where applicable this will include utilizing computer skills.	I	I	I	I	ID	ID	ID	ID	IDP	IDP	IDP	I																										
2.2	Graduates will be able to effectively apply basic analytical skills and mathematical reasoning in solving construction technology problems. Where applicable, computer technology will be used to assist in solving problems and formatting answers.	I	I	I	I	ID	ID	ID	ID	IDP	IDP	IDP	I	I	I																								
2.3	Graduates will be able to draw on available information sources to assist them in communicating, analyzing and solving construction technology problems.	I	I	I	I	ID	ID	ID	ID	IDP	ID	ID	IDP	I	I	I																							
2.4	Graduates will learn, by working in lab conditions; the basics of professional behavior, responsibility, good work habits, and ethical decision making.	ID	ID	ID	ID	ID	ID	ID	ID	IDP	IDP	IDP	ID	I	I																								
2.5	Graduates will be able to utilize a critical thinking approach to solving construction problems.	I	I	I	I	ID	ID	ID	ID	IDP	IDP	ID	ID																										