

Revised 10/11/2011

FORMAT 5

Submit originals and one copy and electronic copy to Governance/Faculty Senate Office (email electronic copy to fysenat@uaf.edu)

**PROGRAM/DEGREE REQUIREMENT CHANGE (MAJOR/MINOR)**

**SUBMITTED BY:**

Department	Construction Trades Technology	College/School	CRCO/I-AC
Prepared by	Bryan Uher	Phone	907-474-2613
Email Contact	bmuher@alaska.edu	Faculty Contact	Mario Gho

See <http://www.uaf.edu/uafgov/faculty/cd> for a complete description of the rules governing curriculum & course changes.

**PROGRAM IDENTIFICATION:**

DEGREE PROGRAM	Construction Trades Technology
Degree Level: (i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)	Certificate, A.A.S

**A. CHANGE IN DEGREE REQUIREMENTS: (Brief statement of program/degree changes and objectives)**

Adds new concentration to the AAS: The Residential Construction Project Management concentration prepares students for employment in areas where there is a projected shortage of skilled management individuals. Skills obtained include project management, finance, safety, computer applications and employability skills as they apply to tribal agencies and governments.

Reduces credit requirements for certificate and AAS: CTT 104 (2) is incorrectly listed in the catalog as a part of CTT 100. This has not been the case since changes to CTT 100 were approved by FS in Fall 2007. CTT 104 is being completely removed from the certificate requirements. Thus credit requirements are reduced by two credits, reducing the credit requirement for the certificate to 36.5 and for the AAS to 70-73.

**B. CURRENT REQUIREMENTS AS IT APPEARS IN THE CATALOG:**

Construction Trades Technology

College of Rural and Community Development

Interior-Aleutians Campus

907-474-5439

[www.uaf.edu/iac/](http://www.uaf.edu/iac/)

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 36.5 - 38.5 credits; for Degree: 73 - 75 credits

The construction trades technology program is designed to prepare students to work in the construction industry. The program prepares students for employment in areas where there is a projected shortage of skilled workers and for potential entry into an apprenticeship program.

This program provides students with fundamental knowledge of construction industry expectations as well as hands-on training. It responds to the skills targeted by Alaskan employers. Students completing the certificate program will have completed the first year of the A.A.S. degree program. Graduates of the A.A.S. degree program may pursue opportunities with employers as they acquire a higher level of construction trade skills.

A strong desire to work in the construction trades industry is important. Students must be willing to work collaboratively with industry employees in construction trades in their local area in order to fulfill the practicum components of courses.

## Certificate Program

1. Complete the [general university requirements](#).
2. Complete the [certificate requirements](#). (As part of the certificate requirement, complete 3 credits each in the communication and human relations requirements.)
3. Complete 3 credits from one of the following computation courses:  
CTT F106--Construction Mathematics (3)  
or TTCH F131--Mathematics for the Trades (3)--3 credits
4. Complete the following program (major) requirements:  
CTT F100--Construction Technology Core (3)  
or CTT F101--Basic Construction Safety (1)  
and CTT F102--Introduction to Hand and Power Tools (1)  
and CTT F103--Introduction to Blueprint Reading (1)  
and CTT F104--Basic Communication and Employability Skills (2)--3 - 5 credits  
CTT F110--Residential Carpentry -- Level One (8.5)  
or CTT F111--Materials and Tools Used in the Trade (2.5)  
and CTT F112--Floor Systems, Wall and Ceiling Framing (2)  
and CTT F113--Roof Framing, Windows and Exterior Doors (2)  
and CTT F114--Introduction to Concrete Materials and Forms (2) 8.5 credits  
CTT F115--Residential Carpentry -- Level Two (12)  
or CTT F116--Reading Plans and Site Layout -- Level One (2)  
and CTT F117--Exterior Finish and Moisture Protection (2)  
and CTT F118--Roofing, Stairs and Metal Studs Applications (3)  
and CTT F119--Drywall and Interior Finish Applications (5)--12 credits  
CTT F199--Student Practicum I--3 credits  
HLTH F122--First Aid and CPR--1 credit
5. Minimum credits required 36.5 - 38.5

## Major -- A.A.S. Degree

1. Complete the [general university requirements](#).
2. Complete the [A.A.S. degree requirements](#). (As part of the degree requirements, complete CTT F106 or TTCH F131 for the computation requirement.)
3. Complete the following construction trades technology certificate program requirements:  
CTT F100--Construction Technology Core (3)  
or CTT F101--Basic Construction Safety (1)  
and CTT F102--Introduction to Hand and Power Tools (1)  
and CTT F103--Introduction to Blueprint Reading (1)  
and CTT F104--Basic Communication and Employability Skills (2)--3 - 5 credits  
CTT F110--Residential Carpentry -- Level One (8.5)  
or CTT F111--Materials and Tools Used in the Trade (2.5)  
and CTT F112--Floor Systems, Wall and Ceiling Framing (2)  
and CTT F113--Roof Framing, Windows and Exterior Doors (2)  
and CTT F114--Introduction to Concrete Materials and Forms (2) 8.5  
CTT F115--Residential Carpentry -- Level Two (12)  
or CTT F116--Reading Plans and Site Layout -- Level One (2)  
and CTT F117--Exterior Finish and Moisture Protection (2)

and CTT F118--Roofing, Stairs and Metal Studs Applications (3)  
and CTT F119--Drywall and Interior Finish Applications (5)--12 credits  
CTT F199--Student Practicum I--3 credits  
HLTH F122--First Aid and CPR--1 credit

4. Complete the following program (major) requirements:\*

CTT F150--Plumbing -- Level One (4)  
or CTT F151--Introduction to Plumbing Tools and Plumbing Drawings (1)  
and CTT F152--Introduction to Plumbing Math (1)  
and CTT F153--Plastic and Copper Pipe and Fittings (1)  
and CTT F154--Fixtures, Faucets, and Venting Systems (1)--4 credits  
CTT F155--Plumbing -- Level Two (8)  
or CTT F156--Intermediate Math and Reading Commercial Drawings (2)  
and CTT F157--Installing and Testing DWV Piping and Other Drains (2)  
and CTT F158--Valves, Faucets and Fixtures: Installation and Testing (3)  
and CTT F159--Fuel Gas Systems (1)--8 credits  
CTT F170--Residential Electrical -- Level One (9)  
or CTT F171--Electrical Safety and Electric Theory (2)  
and CTT F172--Alternating Current, Electrical Test Equipment and the NEC (2)  
and CTT F173--Raceways, Boxes, Fittings and Hand Bending (2.5)  
and CTT F174--Boxes, Fittings, Conductors, Terminations and Splices (2.5)--9  
credits  
CTT F175--Residential Electrical -- Level Two (8)  
or CTT F176--Electrical Blueprint Reading, Wiring Devices, and Raceway, Box  
and Fitting Fill (2)  
and CTT F177--Wiring: Commercial and Residential, and Grounding (2)  
and CTT F178--Circuit Breakers, Fuses and Electric Services (2)  
and CTT F179--Lighting Fixtures and Related Components (2)--8 credits  
CTT F299--Student Practicum II--1.5 credits

5. Minimum credits required--73 - 75 credits

C. *PROPOSED REQUIREMENTS AS IT WILL APPEAR IN THE CATALOG WITH THESE CHANGES:  
(Underline new wording ~~strike through old wording~~ and use complete catalog format )*

Construction Trades Technology

College of Rural and Community Development  
Interior-Aleutians Campus  
907-474-5439 1-888-474-5207 Opt. 2 Ext. 4  
[www.uaf.edu/iac/](http://www.uaf.edu/iac/)

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 36.5 ~~38.5~~ credits; for Degree: 73 70-73 ~~75~~ credits

The construction trades technology program is designed to prepare students to work in the construction industry. The program prepares students for employment in areas where there is a projected shortage of skilled workers, ~~and for potential entry into an apprenticeship program.~~

This program provides students with fundamental knowledge of construction industry expectations as well as hands-on training. It responds to the skills targeted by Alaskan employers. Students completing the certificate program will have completed the first year of

the A.A.S. degree program. Graduates of the A.A.S. degree program may pursue opportunities with employers as they acquire a higher level of residential construction trade and/or residential construction management skills.

A strong desire to work in the construction trades industry is important. Students must be willing to work collaboratively with industry employees ~~in construction trades~~ in their local communities' area in order to fulfill the practicum components of courses.

#### Certificate Program

1. Complete the general university requirements.
2. Complete the certificate requirements. (As part of the certificate requirement, complete 3 credits each in the communication and human relations requirements.)
3. Complete 3 credits from one of the following computation courses:  
CTT F106--Construction Mathematics (3)  
or TTCH F131--Mathematics for the Trades (3)--3 credits
4. Complete the following program (major) requirements:  
CTT F100--Construction Technology Core (3)  
or CTT F101--Basic Construction Safety (1)  
and CTT F102--Introduction to Hand and Power Tools (1)  
and CTT F103--Introduction to Blueprint Reading (1)  
~~and CTT F104--Basic Communication and Employability Skills (2) 3 5 credits~~  
CTT F110--Residential Carpentry -- Level One (8.5)  
or CTT F111--Materials and Tools Used in the Trade (2.5)  
and CTT F112--Floor Systems, Wall and Ceiling Framing (2)  
and CTT F113--Roof Framing, Windows and Exterior Doors (2)  
and CTT F114--Introduction to Concrete Materials and Forms (2) 8.5 credits  
CTT F115--Residential Carpentry -- Level Two (12)  
or CTT F116--Reading Plans and Site Layout -- Level One (2)  
and CTT F117--Exterior Finish and Moisture Protection (2)  
and CTT F118--Roofing, Stairs and Metal Studs Applications (3)  
and CTT F119--Drywall and Interior Finish Applications (5)--12 credits  
CTT F199--Student Practicum I--3 credits  
HLTH F122--First Aid and CPR--1 credit
5. Minimum credits required 36.5 ~~38.5~~

#### Major -- A.A.S. Degree

1. Complete the general university requirements.
2. Complete the written communication A.A.S. degree requirements (6 credits).
3. Complete the following construction trades technology certificate program requirements.  
~~CTT F100--Construction Technology Core (3)  
or CTT F101--Basic Construction Safety (1)  
and CTT F102--Introduction to Hand and Power Tools (1)  
and CTT F103--Introduction to Blueprint Reading (1)  
and CTT F104--Basic Communication and Employability Skills (2) 3 5 credits  
CTT F110--Residential Carpentry -- Level One (8.5)  
or CTT F111--Materials and Tools Used in the Trade (2.5)~~

~~—and CTT F112—Floor Systems, Wall and Ceiling Framing (2)~~  
~~—and CTT F113—Roof Framing, Windows and Exterior Doors (2)~~  
~~—and CTT F114—Introduction to Concrete Materials and Forms (2) 8.5~~  
~~CTT F115—Residential Carpentry—Level Two (12)~~  
~~—or CTT F116—Reading Plans and Site Layout—Level One (2)~~  
~~—and CTT F117—Exterior Finish and Moisture Protection (2)~~  
~~—and CTT F118—Roofing, Stairs and Metal Studs Applications (3)~~  
~~—and CTT F119—Drywall and Interior Finish Applications (5) 12 credits~~  
~~CTT F199—Student Practicum I—3 credits~~  
~~HLTH F122—First Aid and CPR—1 credit~~

4. Complete one of the following program (major) requirements: \* concentrations:

**Residential Construction**

~~CTT F150--Plumbing -- Level One (4)~~  
~~—or CTT F151—Introduction to Plumbing Tools and Plumbing Drawings (1)~~  
~~—and CTT F152—Introduction to Plumbing Math (1)~~  
~~—and CTT F153—Plastic and Copper Pipe and Fittings (1)~~  
~~—and CTT F154—Fixtures, Faucets, and Venting Systems (1) 4 credits~~  
~~CTT F155--Plumbing -- Level Two (8)~~  
~~—or CTT F156—Intermediate Math and Reading Commercial Drawings (2)~~  
~~—and CTT F157—Installing and Testing DWV Piping and Other Drains (2)~~  
~~—and CTT F158—Valves, Faucets and Fixtures: Installation and Testing (3)~~  
~~—and CTT F159—Fuel Gas Systems (1) 8 credits~~  
~~CTT F170--Residential Electrical -- Level One (9)~~  
~~—or CTT F171—Electrical Safety and Electric Theory (2)~~  
~~—and CTT F172—Alternating Current, Electrical Test Equipment and the NEC (2)~~  
~~—and CTT F173—Raceways, Boxes, Fittings and Hand Bending (2.5)~~  
~~—and CTT F174—Boxes, Fittings, Conductors, Terminations and Splices (2.5) 9~~  
~~credits~~  
~~CTT F175--Residential Electrical -- Level Two (8)~~  
~~—or CTT F176—Electrical Blueprint Reading, Wiring Devices, and Raceway, Box~~  
~~and Fitting Fill (2)~~  
~~—and CTT F177—Wiring: Commercial and Residential, and Grounding (2)~~  
~~—and CTT F178—Circuit Breakers, Fuses and Electric Services (2)~~  
~~—and CTT F179—Lighting Fixtures and Related Components (2) 8 credits~~  
~~CTT F299--Student Practicum II--1.5 credits~~

5. Minimum credits required--73 –75 credits

**Residential Construction Project Management**

~~CIOS F150--Computer Business Applications (3)~~  
~~CM F205-- Construction Safety (3)~~  
~~CTT F104--Basic Communication and Employability Skills (2)~~  
~~CTT F240--Intro to Project Development for Rural Residential Construction (3)~~  
~~CTT F241--Intro to Estimating, Cost Control, Quality Controls and Residential~~  
~~Construction (3)~~  
~~CTT F299--Student Practicum II (1.5)~~  
~~TM F105--Introduction to Tribal Finance Applications (3)~~

~~Complete the following elective courses:~~ See revisions below:  
~~XXX Advisor Approved Electives (3) -->~~ Advisor approved TM Electives (3)  
~~XXX Advisor Approved Electives (6) -->~~ Advisor approved CTT Electives (6)

^See revisions -->

Minimum credits required-- 70 -72 credits

\* *Student must earn a C grade (2.0) or better in each course.*

**D. ESTIMATED IMPACT**

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

No impact, students will take course in existing spaces.

**E. IMPACTS ON PROGRAMS/DEPTS:**

What programs/departments will be affected by this proposed action?  
Include information on the Programs/Departments contacted (e.g., email, memo)

The proposed new track includes integration with other CRCD programs, including Construction Management and Tribal Management. The use of CM 205 and TM courses is supported by Galen Johnson (Department Chair of Construction Management and Drafting Technology) and Steve Becker (Tribal Management Program Head).

**F. IF MAJOR CHANGE - ASSESSMENT OF THE PROGRAM:**

Description of the student learning outcomes assessment process.)

Students are assessed through required Practicum and program criteria as listed in the CTT A.A.S. outcomes assessment plan.

**JUSTIFICATION FOR ACTION REQUESTED**

The purpose of the department and campus-wide curriculum committees is to scrutinize program/degree change applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. If you drop a course, is it because the material is covered elsewhere? Use as much space as needed to fully justify the proposed change and explain what has been done to ensure that the quality of the program is not compromised as a result.

There is a great need in rural Alaska for trained local people to manage local construction projects. Tribal and other rural organizations have requested the Interior-Aleutians Campus develop and deliver a distance based Residential Construction Project Management A.A.S. degree. As the number of CTT graduates has increased, additional requests for this degree have come from various campuses within CRCD. In response to the 2010 CTT A.A.S. Program review, stating the need to increase the number of students seeking an AAS degree beyond a certificate, the CTT program is developing and planning to offer a distance based Residential Construction Project Management track; it will give current certificate graduates more opportunities and flexibility to go on and complete their A.A.S. in CTT.

The program is not sure why CTT 104 was not removed from the certificate requirements in 2007 when CTT 100 was modified to remove that module. We are correcting that oversight here.

**APPROVALS:**

*(As per attached.)* 

	Date	
Signature, Chair, Program/Department of:		

	Date	
Signature, Chair, College/School Curricula Council for:		

	Date	
Signature, Dean, College/School of:		

D. ESTIMATED IMPACT

WHAT IMPACT, IF ANY, WILL THERE BE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

No impact, students will take course in existing spaces.

E. IMPACTS ON PROGRAMS/DEPTS:

What programs/departments will be affected by this proposed action?

Include information on the programs/departments contacted (e.g., email, memo)

The proposed new track includes integration with other CRCD programs, including Construction Management and Tribal Management. The use of CM 205 and TM courses is supported by Galen Johnson (Department Chair of Construction Management and Drafting Technology) and Steve Becker (Tribal Management Program Head).

F. IF MAJOR CHANGE - ASSESSMENT OF THE PROGRAM:

Description of the student learning outcomes assessment process.

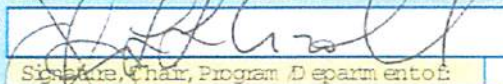
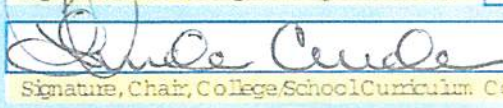

Students are assessed through required Practicum and program criteria as listed in the CTT A.A.S. outcomes assessment plan.

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize program/degree change applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. If you drop a course, is it because the material is covered elsewhere? Use as much space as needed to fully justify the proposed change and explain what has been done to ensure that the quality of the program is not compromised as a result.

There is a great need in rural Alaska for trained local people to manage local construction projects. Tribal and other rural organizations have requested the Interior-Aleutians Campus develop and deliver a distance based Residential Construction Project Management A.A.S. degree. As the number of CTT graduates has increased, additional requests for this degree have come from various campuses within CRCD. In response to the 2010 CTT A.A.S. Program review, stating the need to increase the number of students seeking an AAS degree beyond a certificate, the CTT program is developing and planning to offer a distance based Residential Construction Project Management track; it will give current certificate graduates more opportunities and flexibility to go on and complete their A.A.S. in CTT.

APPROVALS:

	Date	9/20/11
Signature, Chair, Program Department of:	Indigenous, Community & Tribal Programs	
	Date	10/2/11
Signature, Chair, College School Curriculum Council for:	College Rural & Community Dev.	
	Date	10/3/11
Signature, Dean, College School of:	CRCD	

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

 	Date	 
Signature, Chair, UAF Faculty Senate Curriculum Review Committee		

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## CTT format 5 Edit

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Bryan Uher <bmuher@alaska.edu>

Wed, Oct 12, 2011 at 4:27 PM

To: Jayne Harvie <jbharvie@alaska.edu>, Jennifer Carroll <jlcarroll@alaska.edu>, Mario Gho <mgho1@alaska.edu>, Linda Curda <lrcurda@alaska.edu>, Pete Pinney <pppinney@alaska.edu>

Here is the CTT format 5 revisions as of 10/12/11.

The first three points have been addressed in the format 5. Regarding the 4th point, under #3 the list of classes is being eliminated. It seemed appropriate to simply reference the certificate as the classes are listed immediately prior to this section. If this is not appropriate we will retain the list of classes. Under #4 the eliminated courses are all modules contained in the preceding course. For example, CTT 151, 152, 153, and 154 are all contained within CTT 150. Some of separate module courses are occasionally offered as general interest courses in villages and a couple are part of existing OEs, but they are never offered as a completed series which makes them inappropriate to list as an option under the AAS degree requirements. The content of the Residential Construction concentration is not changing. We are eliminating an option to get that content that is realistically not available to students.

Bryan Uher

Interior-Aleutians Campus

University of Alaska Fairbanks

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[bmuher@alaska.edu](mailto:bmuher@alaska.edu)



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