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
Prepared by: Bryan Uhre
Email Contact: bmuher@alaska.edu

College/School: CRCD/I-AC
Phone: 907-474-2613
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:

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Construction Trades Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Level:</td>
<td>(i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)</td>
</tr>
</tbody>
</table>

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/

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)
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/

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)
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 -- Plastics 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, Electric Services, 2 credits
  - 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:

- TM Advisor Approved Electives (3) — Advisor approved TM Electives (3)
- CTT 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-Alutians 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:

Signature, Chair, Program/Department of: 
Date

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

Signature, Dean, College/School of: 
Date
D. ESTIMATED IMPACT
WHAT IN FACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.
No impact, students will take course in existing spaces.

E. IMPACT ON PROGRAM DEPARTMENTS:
What program and departments will be affected by this proposed action?
Include information on the Program and department (e.g., enrollment, etc.);

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. FINANCIAL CHANGE ASSESSMENT OF THE PROGRAM:
Description of the financial change 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 degree, earning, and program (core) is to ensure that the quality of this education program is maintained and is maintained 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? Make sure this is reflected in the justification for the proposed change.

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-Alutians 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.

APPROVING:

Signature, Chair, Program Department
Date 9/20/11

Signature, Chair, College/School Curriculum Councilor
Date 10/2/11

Signature, Dean, College/School
Date 10/3/11

All signatures must be obtained prior to submission to the Governance Office.

Signature, Chair, UAF Faculty Senate Curriculum Review Committee
Date


CTT format 5 Edit

Bryan Uher <bmuher@alaska.edu>       Wed, Oct 12, 2011 at 4:27 PM
To: Jayne Harvie <jbharvie@alaska.edu>, Jennifer Carroll <jlcarrroll@alaska.edu>, Mario Gho <mgho1@alaska.edu>, Linda Curda <lcurd@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

907-474-2813
bmuher@alaska.edu

CTT AAS Residential Construction PJ Format 5 10-12-11.doc
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