

Articulation Agreement

2019-2020

University Alaska Fairbanks

Interior Alaska Campus

810 Draanjik

Fairbanks, Alaska 99709

Galena City School District

PO Box 299

Galena, Alaska 99741

Purpose:

In addition to the current Tech Prep Agreement between University of Alaska Fairbanks and Galena City School District, we have agreed to add the following course that is within UAF Welding Program:

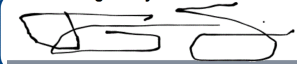
1. Galena City School District will follow a UAF Welding curriculum in coordination with the administration and faculty of the University of Alaska Fairbanks pertaining to the following courses on the course below.
2. Galena City School District will teach for the attached outcomes.
3. The attached syllabus will follow the learning outcomes of the university-approved course listed.

UAF Course Number	UAF Course Title	Number of UAF Credits	Galena City School District Course Title
WMT 103	Welding1	3 credits	Welding 1

1. The attached syllabus will be followed.
2. Galena City School District will provide necessary support for students to be successful in this course which may include computer support, reference books and academic assistance.
3. Interior Alaska Campus will process the registrations.
4. In order to receive concurrent credit, the student will register for the Tech Prep class during the semester in which the competencies will be completed.

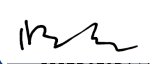
Approvals:

Anthony Simko
Assistant Professor
Welding and Materials Technology Department Chair
Community and Technical College
University of Alaska Fairbanks


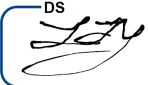
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 April 18, 2019
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Signature Date

Bryan Uher
Interim Director
University of Alaska Fairbanks
Interior Alaska Campus
Fairbanks, Alaska

Jim Merriner
Superintendent
Galena City School District
Galena, Alaska

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 April 18, 2019
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 May 2, 2019
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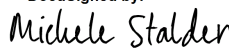
Kevin Illingworth  

Acting Dean-College of Rural and
Community Development
P.O. Box 6500
University of Alaska Fairbanks
Fairbanks, AK 99775-6500


Michele Stalder
Dean-Community and Technical College
604 Barnette Street
University of Alaska Fairbanks
Fairbanks AK 99701

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 April 18, 2019
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Signature Date

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 May 2, 2019
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Signature Date

Anupma Prakash, 

Provost and Executive Vice Chancellor
P.O. Box 7580
University of Alaska Fairbanks
Fairbanks, AK 99775-7580

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 May 2, 2019
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Signature Date

WMT 103 (Welding I)
Syllabus
3 credit semester course
Galena Interior Learning Academy
Instructor: David Wightman

Term: Fall 2018 and Spring 2019

Course Title: Welding I

Dept. & Num.: WMT 103

Credits: 3

Prerequisites: none

Dates: Year Long

Days & times: Monday - Friday 9:00-10:20 and 1:55-3:15 on A Days

Monday -Friday 9:00-10:20 on B Days

Location: Galena Interior Learning Academy

Instructor: David Wightman

Position: CTE Instructor

Phone: (907)-656-2053

Email: david.wightman@galenanet.com

Office hours: Monday-Friday 8:00am to 4:00pm

Text: Arc Welding - John Walker and Richard Polanin

Oxyfuel Gas Welding - Bowditch and Bowditch

Handouts supplied by instructor

Course Description: Students will learn SMAW welding techniques in the flat, vertical, horizontal and overhead positions using various electrodes. Students will complete basic weld joints in each position. Students will also be introduced to other equipment utilized in the metal fabrication industry.

Course Goals: Students will learn the fundamental welding and cutting skills necessary to prepare students for advanced welding classes and potential employment opportunities in construction, agriculture, mining, transportation, aviation, and petroleum fields in Alaska.

Skill expectations:

No previous welding class is required. The purpose of this course is to provide students with the fundamental welding skills necessary

Course Goals & Student Learning Outcomes:

- Demonstrate flat, vertical, horizontal, and overhead arc welding techniques and procedures
- Work safely in a shop according to school and OSHA regulations
- Describe correct welding procedures
- Demonstrate Flux Core and solid wire MIG welding procedures
- Demonstrate oxy-acetylene welding/cutting techniques and procedures
- Demonstrate flat, vertical, horizontal, and overhead position arc welds
- Demonstrate proper electrode selection
- Demonstrate proper welder adjustment based on metal and electrode being used

- Demonstrate proper use of the use the plasma cutter

Instructional methods:

A variety of instructional methods will be used to help students to understand the basic principles of welding and cutting. These include:

1. Teacher led whole class discussion
2. Assigned readings from course textbook
3. Teacher demonstrations
4. Student led discussion and exploration
5. Small group instruction

Course Calendar

Week 1	Monday through Friday	Safety Demonstration and Tests	240 minutes - 240 classroom minutes
Week 2	Monday through Friday	Safety Demonstration and Tests	160 minutes - 80 classroom minutes; 80 lab minutes
Week 3	Monday through Friday	Arc/Oxy Demonstration and Safety Tests	240 minutes - 80 classroom minutes; 160 lab minutes
Week 4	Monday through Friday	Arc/Oxy Student Set-up and Tool ID	160 minutes - 80 classroom minutes; 80 lab minutes
Week 5	Monday through Friday	Arc/Oxy Student Set-up and Tool ID	240 minutes - 80 classroom minutes; 160 lab minutes
Week 6	Monday through Friday	Measurement, symbols and blue prints	160 minutes - 80 classroom minutes; 80 lab minutes
Week 7	Monday through Friday	Measurement, symbols and blue prints Arc =short beads Oxy=bead w/o rod and V weld	240 minutes - 80 classroom minutes; 160 lab minutes
Week 8	Monday through Friday	Arc =short beads Oxy=bead w/o rod and V weld	160 minutes - 160 lab minutes
Week 9	Monday through Friday	Arc =flat bead Oxy=flat bead w/ rod	240 minutes - 80 classroom minutes; 160 lab minutes
Week 10	Monday through Friday	Arc = flat bead w/ start over	160 minutes - 160 lab minutes

		Oxy=flat bead w/ rod Joint preparation Electrode Classification	
Week 11	Monday through Friday	Arc =butt Oxy=butt Joint preparation Electrode Classification	240 minutes - 80 classroom minutes; 160 lab minutes
Week 12	Monday through Friday	Arc =Lap Oxy=Lap	160 minutes - 160 lab minutes
Week 13	Monday through Wednesday	Arc =Lap Oxy=Lap	80 minutes - 80 lab minutes
Week 14	Monday through Friday	Arc = T Fillet Oxy= T Fillet	160 minutes - 80 classroom; 80 lab minutes
Week 15	Monday through Friday	Arc = 3 Pass T Oxy = pattern Cut	240 minutes - 80 classroom minutes; 160 lab minutes
Week 16	Monday through Friday	Arc = 3 Pass T Oxy = pattern Cut	160 minutes - 80 classroom; 80 lab minutes
		Total time first semester	3200 minutes/53.3 hours
Week 1	Monday through Friday	Arc = Pad MIG = Flux Core push/pull T	240 minutes - 80 classroom minutes; 160 lab minutes
Week 2	Monday through Friday	Arc = Pad MIG = Flux Core push/pull T	160 minutes - 80 classroom minutes; 80 lab minutes
Week 3	Monday through Friday	Arc = Weave MIG = Flux Core Up/Down T	240 minutes - 80 classroom minutes; 160 lab minutes
Week 4	Monday through Friday	Arc = Weave MIG = Flux Core Up/Down T	160 minutes - 80 classroom minutes; 80 lab minutes
Week 5	Monday through Friday	Arc = V. Up T MIG = flux Core Pipe T	240 minutes - 80 classroom minutes; 160 lab minutes
Week 6	Monday through Friday	Arc = V. Up T MIG = flux Core Pipe T	160 minutes - 160 lab minutes
Week 7	Monday through Friday	Arc = Overhead T Plasma = Pattern Cut	240 minutes - 80 classroom minutes; 160 lab minutes
Week 8	Monday through Friday	Arc = Overhead T Plasma = Pattern Cut	160 minutes - 160 lab minutes

Week 9	Monday through Friday	Arc = Horizontal Butt Calculating bills of Material	240 minutes - 80 lab minutes
Week 10	Monday through Friday	Arc = Horizontal Butt Calculating bills of Material	160 minutes - 80 classroom; 80 lab minutes
Week 11	Monday through Friday	MIG = Solid wire and shielding gas procedures	240 minutes - 80 classroom minutes; 160 lab minutes
Week 12	Monday through Friday	MIG = Solid wire and shielding gas procedures	160 minutes - 160 lab minutes
Week 13	Monday through Friday	MIG = Solid wire and shielding gas procedures	240 minutes - 80 lab minutes
Week 14	Monday through Friday	MIG = Solid wire and shielding gas procedures	160 minutes - 80 classroom; 80 lab minutes
Week 15	Monday through Friday	Project Fabrication Fabricate various welded projects (ie snowmobile stands, picnic table, camp grill, tank stands etc.) <i>*students who have completed required welds</i>	240 minutes - 240 lab minutes
Week 16	Monday through Friday	Project Fabrication Fabricate various welded projects (ie snowmobile stands, picnic table, camp grill, tank stands etc.) <i>*students who have completed required welds</i>	160 minutes - 160 lab minutes
Week of 4-30-18	Monday through Friday	Project Fabrication Fabricate various welded projects (ie snowmobile stands, picnic table, camp grill, tank stands etc.) <i>*students who have completed required welds</i>	240 minutes - 240 lab minutes
Week 17	Monday through Friday	Project Fabrication Fabricate various welded projects (ie snowmobile stands,	160 minutes -160 lab minutes

		picnic table, camp grill, tank stands etc.) *students who have completed required welds	
Week 18	Monday through Friday	Project Fabrication Fabricate various welded projects (ie snowmobile stands, picnic table, camp grill, tank stands etc.) *students who have completed required welds	240 minutes - 240 lab minutes
		Total time second semester	3680 minutes/61.3 hours
		Total time for the year	6880 minutes/114.67 hours

Course Subject Breakdown

Competency tests are given in each of these course areas:

Course safety testing - 30 hours

Flat G1 Arc Welding - 40 hours

GMAW Welding - 35 hours

Plasma cutting- 10 hours

Attendance, participation & professionalism: 40%

Grading System:

Welds and assignments: 60%

Attendance, participation & professionalism: 40%

Evaluation:

Students will be evaluated on their class participation, professionalism in their approach to learning, the quality of the welds submitted, and completion of all required assignments.

Grading Scale:

A=100-90%

B=89-80%

C=79-70%

D=69-60%

F=59-0%

Meeting Time:

Monday - Friday 9:00-10:20 and 1:55-3:15 on A Days

Monday -Friday 9:00-10:20 on B Days

Course Policies:

Students will conduct themselves ethically, responsibly, and professionally, respecting the rights of others to learn in a least restrictive environment.

Students are expected to be in class each day

Students are expected to be on time and prepared each day to begin class

Students are expected to participate fully in class lectures, discussions, and student demonstrations.

Each student must attempt and demonstrate mastery of all skills required for the class.

Students are expected to submit only work that is their own and to be sure to properly attribute any other material used to the appropriate source.

Support Services:

Galena Interior Learning Academy

PO Box 359 Galena, AK 99741

907-656-2053

www.galenaalaska.org

SHS CTE offers the following learning supports:

Before school tutoring and supplementary instruction Monday-Friday 8:00-8:45am.

Career counseling

Disability Services:

The Office of Disability Services implements the Americans with Disabilities Act (ADA) and ensures that GILA students have equal access to the campus and course materials. The instructor will work with the Office of Disabilities to provide reasonable accommodation to students with disabilities.

Student protection and services statement:

Every qualified student is welcome in my classroom. As needed, I am happy to work with you, disability services, veterans' services, rural student services, etc. to find reasonable accommodations. Students at this university are protected against sexual harassment and discrimination (Title IX), and minors have additional protections. As required, if I notice or am informed of certain types of misconduct, then I am required to report it to the appropriate authorities. For more information on your rights as a student and the resources available to you to resolve problems, please go the following site: www.uaf.edu/handbook/