Articulation Agreement
2019-2020

University Alaska Fairbanks          Yukon Flats School District
Interior Alaska Campus                Po Box 350
810 Draanjik                          Ft. Yukon, Alaska 99740
Fairbanks, Alaska 99709

Purpose:
In addition to the current Tech Prep Agreement between University of Alaska Fairbanks and Yukon Flats School District, we have agreed to add the following course that is within Welding and Materials Technology program.

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

<table>
<thead>
<tr>
<th>UAF Course Number</th>
<th>UAF Course Title</th>
<th>Number of UAF Credits</th>
<th>Yukon Flats School District Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMT F160</td>
<td>Gas Metal Arc Welding</td>
<td>2 Credit</td>
<td>Gas Metal Arc Welding</td>
</tr>
</tbody>
</table>

1. The attached syllabus will be followed.
2. Yukon Flats 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

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

Gerald Andrew  
Voc Ed Center  
Yukon Flats School District  
Ft. Yukon, Alaska

April 15, 2019

April 1, 2019

May 3, 2019
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

Anupma Prakash,  
Provost and Executive Vice Chancellor  
P.O. Box 7580  
University of Alaska Fairbanks  
Fairbanks, AK 99775-7580
Course Syllabus
Gas Metal Arc Welding – WMT F160
UAF - Fort Yukon - YFSD - CTE

<table>
<thead>
<tr>
<th>Term:</th>
<th>2019 Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Title:</td>
<td>Gas Metal Arc Welding</td>
</tr>
<tr>
<td>Dept. &amp; Num:</td>
<td>WMT F160</td>
</tr>
<tr>
<td>Credits:</td>
<td>2</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>None</td>
</tr>
<tr>
<td>Dates:</td>
<td>03/28-4/4/2019</td>
</tr>
<tr>
<td>Days &amp; Times:</td>
<td>TBD</td>
</tr>
<tr>
<td>Location:</td>
<td>Yukon Flats School District – CTE Center</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Jack Simpson</td>
</tr>
<tr>
<td>Position:</td>
<td>Adjunct Instructor</td>
</tr>
<tr>
<td>Office Location:</td>
<td>UAF Yukon Flats Campus</td>
</tr>
<tr>
<td>Phone:</td>
<td>907-841-5219</td>
</tr>
<tr>
<td>Fax:</td>
<td>907-662-6044</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:jsimpson@mtaonline.net">jsimpson@mtaonline.net</a></td>
</tr>
<tr>
<td>Hours Available:</td>
<td>By Appointment</td>
</tr>
<tr>
<td>Text:</td>
<td>Handout package will be issued: Victor Welding, Cutting and Heating Guide</td>
</tr>
<tr>
<td>Supplemental Readings:</td>
<td>From Handout package and guide (Victor, Lincoln, Hypermax)</td>
</tr>
<tr>
<td>Supplies:</td>
<td>Appropriate clothing: student must wear cotton pants without holes, cotton shirt, leather work boots. YFSD will supply safety and PPE clothing.</td>
</tr>
</tbody>
</table>

Course Description:
Prepares student to work with gas cutting/welding and wire feed processes. Gas metal arc welding focuses on ferrous and nonferrous metals welded in all positions. Additional skill and experience will be in oxygen/acetylene cutting and welding along with plasma and the use of power and hand tools.

Course Goals:
Students will become knowledgeable in the use of an oxygen/acetylene torches and GMAW processes, power and hand tools used in welding shops. Successful students will become entry level proficient in cutting, welding and GMAW skills.

Student Learning Objectives:

<table>
<thead>
<tr>
<th>Students Shall Be Able To...</th>
<th>Evaluated By...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work safely in the welding shop and environment by understanding safety procedures and applications in GMAW processes.</td>
<td>Instructor</td>
</tr>
</tbody>
</table>

Understand OAW fundamentals:
- Properly setup, adjust and ignite an GMAW apparatus.
- Develop proper hand, eye coordination.
- Develop proper body position that best supports a satisfactory outcome
- Become proficient in stringer beads, laps, butts, and tees in the flat and horizontal positions.
- Know safety procedures and OSHA requirements.
# Course Syllabus

Gas Metal Arc Welding – WMT F160  
UAF - Fort Yukon - YFSD - CTE

## Instructional Methods:
- Lectures
- Demonstrations

## Course Calendar:

<table>
<thead>
<tr>
<th>Sessions</th>
<th>Topics to be Covered</th>
<th>Assignments, Quizzes, Tests</th>
</tr>
</thead>
</table>
| Class 1 2 Hours| Welcome, introduction and course syllabus  
Job market outlook and next step opportunities  
Skills USA competition                                                                                                                                  |                            |
| Class 2 9 Hours| Safety  
Issue to students PPE and shop safety equipment.  
Lecture on oxy/acetylene and GMAW fundamentals  
Introduce types of welding equipment  
Demonstration on oxy/acetylene and GMAW                                                                                                                     | Quiz 1  
Safety test #1 |
| Class 3 9 Hours| Review oxy/acetylene and GMAW safety and welder operations.  
Student Practice                                                                                                                                                                                                  | Quiz 2  
Safety test #2 |
| Class 4 9 Hours| Lectures on GMAW welders and positions  
Lectures and demonstrations on SMAW  
Student Practice on SMAW                                                                                                                                       | Quiz 3 |
| Class 5 9 Hours| Q&A Session  
Intro to other welding processes  
Individual proficiency exam                                                                                                                                     | Quiz 4  
Safety test #4 |
| Class 6 9 Hours| Review safety in all processes  
Finish any demonstrations and proficiency exams  
Student practice in all processes  
Clean up shop  
Final                                                                                                     | Final exam |
Course Syllabus
Gas Metal Arc Welding – WMT F160
UAF - Fort Yukon - YFSD - CTE

Course Policies:
1. Students must conduct themselves honestly & responsibly, & to respect the rights of others.
2. Attendance is mandatory.
3. Late assignments are not accepted without prior approval of instructor.
4. The instructor reserves the right to amend this course outline as needed.
5. No food or drink is allowed in the lab.

Final Exam:
Written and practical exam

Evaluation:
Breakdown of grading by percentage:
- Attendance, employability: 10%
- Quizzes: 10%
- Safety: 20%
- Independent Study: 20%
- Individual Proficiency Exam: 20%
- Final: 20%

Pass/Fail:
YFSD students must achieve a 70% or better to pass this class for YFSD.

Grading Policy:
Letter Grades

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93-100%</td>
</tr>
<tr>
<td>A-</td>
<td>90-92%</td>
</tr>
<tr>
<td>B+</td>
<td>87-89%</td>
</tr>
<tr>
<td>B</td>
<td>83-86%</td>
</tr>
<tr>
<td>B-</td>
<td>80-82%</td>
</tr>
<tr>
<td>C+</td>
<td>77-79%</td>
</tr>
<tr>
<td>C</td>
<td>73-76%</td>
</tr>
<tr>
<td>C-</td>
<td>70-72%</td>
</tr>
<tr>
<td>D+</td>
<td>67-69%</td>
</tr>
<tr>
<td>D</td>
<td>63-66%</td>
</tr>
<tr>
<td>D-</td>
<td>60-62%</td>
</tr>
<tr>
<td>F</td>
<td>Below 60%</td>
</tr>
</tbody>
</table>

Support & Disability Services:
University of Alaska Fairbanks
Interior Alaska Campus
PO Box 756720
Fairbanks, AK 99775
Toll Free 888-474-5207
Phone 907-474-5439
Fax 907-474-5208

Students can also go to the following websites and/or hotlines for help:
- UAF – http://www.uaf.edu
- College of Rural & Community Development – http://www.uaf.edu/rural/
- Bristol Bay Campus – http://www.uaf.edu/bbc/index.html
- UA Online – http://uaonline.alaska.edu/
- Math Hotline – 866-823-6284
- Writing Center – http://www.alaska.edu/english/studentresources/writing/
- Library Services for Off Campus Students – http://library.uaf.edu/offcampus
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Disclosures:
UAF is an AA/EO employer and educational institution.

The University of Alaska Fairbanks is accredited by the Northwest Commission on Colleges and Universities. UAF is an affirmative action/equal opportunity employer and educational institution.

You may confidentially disclose and access confidential counseling by contacting the UAF Health and Counseling Center at 907-474-7043. You can get support and file a Title IX report by contacting the UAF Title IX coordinator at 907-474-7599. You may file a criminal complaint by contacting the UAF Police Department at 907-474-7721.

From Disability Services: UAF is obligated to provide accommodation only to the known limitations of an otherwise qualified student who has a disability. Please identify yourself to UAF Disability Services by applying for accommodations. To be considered for UAF Disability Services accommodations, individuals must be enrolled for at least one credit as a UAF student. For more information contact Disability Services at uaf-disabilityservices@alaska.edu, 907-474-5655 or by TTY at 907-474-1827.

Center for Health and Counseling, provides academic accommodations to enrolled students who are identified as being eligible for these services. If you believe you are eligible, please visit http://www.uaf.edu/disability on the web or contact a student affairs staff person at your nearest local campus. You can also contact Disability Services on the Fairbanks Campus at 907-474-5655, by email at uaf-disabilityservices@alaska.edu.

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/