



NON-CREDIT TO CREDIT CONVERSION

Credit Course Title: ARC Welding

Credit Course Number: WEL149.01 113408 Credit Course Hours: 10:30 - 11:45a.m.

Non-Credit Course(s)  
Number Title

~~Trade 36 \* 01~~ ~~Combination Welding~~

Course instructor has appropriate qualifications.

- Attach Minimum Faculty Standards form

Competencies have been reviewed for both classes to determine compatibility.

- Attach Non-Credit Course Competencies form and credit course master syllabus

Assessment instrument(s) for the non-credit (alternative) credit course have been reviewed and determined to adequately measure student success.

- Attach assessment instrument that was used

After Printing, Please Circle

YES  NO

YES  NO

YES  NO

CE Instructor: Jim Brown Date: 3-3-15

CE Program Coord.: Paul Smith Date: 3-3-15

Academic Dean: Kim K. Carter Date: 4/14/15

CE Dean: Cam S Date: 4-17-15

VP Academic Affairs: Marge Wood Date: 3/6/15

Approve  Deny

Approve  Deny

Approve  Deny

Approve  Deny



Non-Credit Course Competencies

Non-credit Course Title: Combination Welding Course Number: Trade 36 \*01

Credit Course Title: ARC Welding Course Number: WEL 149.01

For each credit course competency listed on the master syllabus, describe how, and the degree to which, this non-credit course meets the competency. If additional space is needed, continue on another page and attach it to this form.

Competency 1: Welding safety will be demonstrated

Competency 2: Print reading will be demonstrated

Competency 3: Basic Knowledge of Welding and cutting will be shown.

Competency 4: Welds will be inspected and tested.

Competency 5: Will demonstrate welder qualifications.

Competency 6:

Competency 7:

Competency 8:

Non-Credit Course Instructor: [Signature] Date: 3-3-15

Program Chair: [Signature] Date: 4/15/15

Academic Dean: [Signature] Date: 4/14/15

CE Dean: [Signature] Date: 4-17-15

Iowa Western Community College  
Minimum Faculty Standards (IAC 281-21.3)  
Faculty Personnel Files Documentation

Instructor Name: \_\_\_\_\_  
Specialty Area: Tim Branan  
Welding

Please check all boxes in section I or II that apply.

**Section I**

**Career and Technical (CTE) Instructor**

Instructor is registered, certified, or licensed in the occupational area in which the state requires registration, certification or licensure for the occupational area in which the instructor is teaching.

Instructor holds a baccalaureate or graduate degree in the area or related area of study or occupational area in which the instructor is teaching classes.

Instructor has special training and at least 6,000 hours of recent and relevant work experience in the occupational area or related occupational area in which the instructor teaches classes (applicable if the instructor possesses less than a baccalaureate degree).

**Section II**

**Arts and Science Instructor** - Arts and Sciences instructors shall meet either of the two following qualifications:

Instructor possesses a master's degree from a regionally accredited graduate school, and has successfully completed 12 credit hours of graduate level courses in each field of instruction in which the instructor is teaching classes.

Instructor has two or more years of successful experience in a professional field or area in which the instructor is teaching classes and in which post-baccalaureate recognition or professional licensure is necessary for practice, including but not limited to the fields or areas of accounting, engineering, law, law enforcement, and medicine.

If the instructor has not met the criteria above, please document the situation below:


The instructor's credentials have been reviewed and documented according to Iowa's Minimum Faculty Standards (IAC 281-21.3) Ruling and IWCC's Interpretation.

Signature: Tim Branan Date: 4/14/15

Iowa Community College GAP Tuition Assistance Program (IA GAP)  
 Certificate Program Submission / Approval Form

Certificate Program Title: Production Welding Certificate

CIP: \_\_\_\_\_ Contact Hours: 108 Industry Sector: Adv. Mfg.  
 (Please Circle) Healthcare  
 Info Tech/Financial  
 Trans./Logistics  
 Bio/Life Sciences

**Certificate Program Description:**

Prepares you for the basic skills needed to obtain a job welding in a manufacturing production environment. Learn the skills needed to weld on sheet metal and instructional steel:

- **Printreading for a Welder**, welding symbols used on the job, plus basic math skills pertaining to reading prints
- **GMAW (Gas Metal Arc Welding)**; Wire Welding, the process of choice for industry.

Students completing the program will take AWS D1.1 test on 1/2" plate in 1G position to obtain AWS Welder Certification. (108 hours)

**Meets the IA GAP Legislative Definition:**

1. The Certificate Program is offered for college credit?  Y  N
2. Is aligned\* with a certificate, diploma, or degree for credit?  Y  N  
 \*\*aligned: 1. Is approved for waived credit or articulated to a credit certificate, diploma, or degree program; **or**  
 2. A program in which objectively assessed competencies serve as the basis for the award and lead to immediate employment **and** 3. and program participation enhances the probability of success in a for-credit certificate, diploma or degree program.
3. The certificate program does one or more of the following:

- Offers a state, national, or locally recognized certificate. A locally recognized certificate is one that has an active advisory committee or sector board with written documentation of need, interest, and employment opportunities.  Y  N

- Offers preparation for a professional examination or licensure. In this case, the student passes an examination that is not administered or developed by the community college, but instead would be considered a 3<sup>rd</sup> party certification from a professionally recognized source.  Y  N

- Provides endorsement for an existing credential or license. Examples would include but not be limited to: an EMT who comes back for PALS or ACLS certification or a certification for home health care for a CNA.  Y  N

- Represents recognized skill standards defined by an industrial sector which could be documented by minutes from and advisory or sector board meeting with written documentation of need, interest, and employment opportunities.  Y  N

4. The certificate program is offered on-line and has been developed by the College. The certificate program is not provided through a third-party vendor.  Y  N

Y  N

Submitted By: Pam Southworth Community College IWCC

Approved By IA GAP Steering Committee: \_\_\_\_\_  Y  N

NOTES:

W F

IOWA WESTERN COMMUNITY COLLEGE  
Short Term Training Course Information

Course Name Combination Welding    Contact Hours 120    CEU's .110  
Course Tuition \$2495

Course Description: Obtain skills in welding with each process in all positions, and in different metals and alloys, such as aluminum and stainless steel. Learn the necessary skills to weld beyond the manufacturing field into the world of customized welding.

Prerequisites: None

Required Textbooks: Modern Welding

Materials and Supplies to be Furnished by Student : Writing utensil, book, notebook  
Course Learning Objectives L

1. Student will demonstrate welding safety
2. Student will demonstrate basic knowledge in Welding Print reading
3. Demonstrate basic knowledge in Welding and Cutting processes
4. Demonstrate basic knowledge of inspecting and testing welds
5. Demonstrate procedures and welder qualifications

Classroom Assessment Techniques: Written tests

Grading: Pass/Fail The student each will be tested on a weld with the potential of getting qualified by a third party.

# Tim Branam

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## Experience

**Nov.29 2014 - Current**

**Branam Ornamental Iron**

**Walnut, Ia.**

- Custom made iron work
- Welding and blacksmithing

**5-1989- current**

**IWCC**

**Council Bluffs Ia.**

- Adjunct Instructor
- Welding – structural building blueprint reading / estimating

**2/04 – Current**

**Security National Bank**

**Omaha, NE.**

- Facility Engineer-oversee bank building and ground Maintenance for 12 branch buildings.
- Hiring vendors for janitorial, lawn and snow removal
- Oversee supply department and warehouse.
- Member of safety committee division

**10/02 – 2/2004**

**New Steel Inc.**

**Omaha, Ne**

- Sales & Estimating
- Project Managing
- Purchasing

**2/00 – 8/2002**

**Baum Iron**

**Omaha, Ne.**

- Outbound sales-hydraulic pumps, motors bearing, nuts, bolt, etc.
- Inbound technical support

**Education**

Corning Community School

Corning, Ia.

**Iowa Western**

- 6 week Hydraulics course- Iowa Western 2001
- 6 week course in Auto Cad Iowa Western 2003
- Short Course in Construction Estimating IBE Cedar Rapids 2003

**Other Positions**

- Zoning Administrator for Walnut, IA
- Member of several welding and blacksmith associations. IBWA, ABANA, UMBA

**Equipment  
Experience**

Welding- Mig, Tig, Stick, Oxygen, Acetylate, Torching, Air Arc  
12 X ¼ Cincinnati Metal Brake, 12 X ¼ Shear, Drill Press, Iron Worker,  
Hossfield Bender, Lathes, Mills, Boring Mills.  
Previously certified in stick and wire welding.

IOWA WESTERN COMMUNITY COLLEGE  
Course Syllabus Information  
WEL-149-01

Term: Spring 2015

I. Faculty Information:

Instructor: Tim Branan

Phone: (402) 740-3248  
e-mail: tbranan@iwcc.edu  
Office: DOD-1016  
Office Hours: By Appointment

II. Course Information:

<u>Course Prefix/ No.</u>	<u>Course Name</u>	<u>Credits</u>	<u>Lecture</u>	<u>Lab</u>
WEL-149	Arc Welding	3	3	0

Course Description:

Arc Welding covers the fundamentals and technical knowledge of arc welding in the flat position on mild steel with different rods on different thicknesses of metal. Welding safety practices are also stressed.

Prerequisites:

None.

Course Meeting Times

WEL-149-01 TTH 10:30-11:45

Course Location

D1016

Required Textbooks

Modern Welding by Andrew B. Althouse, Carl H. Turnquist, William A. Bowditch, Kevin E. Bowditch; 10<sup>th</sup> Edition

Suggested Supplemental Textbooks, References

None

Materials and Supplies to be Furnished by Student

1. Notebook
2. Pencil
3. Textbook

Course Objectives

Upon successful completion of this course, the student should be able to:

- A. Demonstrate welding safety.
- B. Demonstrate basic knowledge in Welding Print Reading.
- C. Demonstrate basic knowledge in Welding and Cutting Processes.
- D. Demonstrate basic knowledge of Inspecting and Testing Welds.
- E. Demonstrate Procedures and Welder Qualifications.

Course Practices



1. Attendance Requirements: Students are responsible for attending classes as scheduled. If an absence is unavoidable, the student is responsible for obtaining class notes from other students.
2. Cellular Phone: Cell phones will be turned off during class. Texted messaging will not be allowed during scheduled class time. If a student's cell phone rings or he/she is texting, the student will be asked to leave the class room for the remaining time of class.
3. Standards for Written Work: Homework may be typed or legibly handwritten. Proper grammar and punctuation will be used. Homework is due on dates on class outline or announced by instructor.
4. Late Papers and Assignments: Late work will not be accepted.
5. Missed Exams: If a student misses a scheduled examination, a make-up may be taken without penalty. The make-up exam will be comparable but different than the original exam. Students will have one class period to complete missed exam.
6. Extra Credit: No extra credit will be offered or rewarded.
7. Participation: Success in anything requires participation. Acceptable participation is:
  1. Being on time for class.
  2. Being prepared (reading material and completing assignments).
  3. Asking and answering questions in class.
  4. Being active in group discussions and exercises.
  5. Providing the instructor with feedback.

### **Instructional Techniques and Practices**

Techniques utilized will be lectures, individual and group discussions and exercises.

### **Safety Practices and Policies**

All students will be required to read, understand and follow all safety rules and requirements established by local, State, Federal and the Iowa Western Community College lab policies.

If safety violations occur, the student is subject to disciplinary action. All this information can be referenced in the Iowa Western Community College Handbook, under Student Conduct.

### **Classroom Assessment**

The instructor will periodically obtain and evaluate formal and informal feedback from students in order to evaluate learning and refine instruction.

## Grading

Final grade will be given based on a point system including, but not limited to:

Daily Quizzes	69%
Quizzes	11%
Lab Exams	11%
Final	9%

The percent value for lab/class participation, quizzes, test, projects, mid-term exam and final exam are based on the students overall grade.

Daily Quizzes	31 Quizzes@50 Points per Quiz = 1550 Points
Quizzes	5 Quizzes @ 50 Points per Quiz= 250 Points
Lab Exams	5 Exams @ 50 points per Exam = 250 Points
Final Exam	1Exam @ 200 Points = 200 Points

**2,250 Total Points**

## Grading Policy

90-100% =	A
80-89% =	B
70-79% =	C
60-69% =	D
59 and Below =	F

Iowa Western Community College uses the following grading scale:

- A-Indicates superior work and excellent progress.
- B-Indicates work and progress above the average standard.
- C-Indicates work and progress that meets the average standard.
- D-Indicates work and progress below the average standard.
- F-Indicates work and progress below the minimum standard.
- I-Indicates that course requirements have not been completed.

The justification for awarding a grade of incomplete is one in which:

- a. Significant health issues (individual or family member) which have interfered with the student's ability to complete assigned work within the semester which has been scheduled in the course.
- b. Significant personal crisis within an individual's life that has seriously disrupted the student's ability to complete coursework.
- c. A student should have completed a minimum of 75% of the assignments with an overall grade of "C" or better.

## **Other Course Information**

### *Important Dates:*

January 12 (M)	Spring Classes Begin
Jan 14 (W)	Last Day to add Accelerated Sessions 1 Classes
Jan 16 (F)	Last Day to add Regular Term session day classes
Jan. 17 (S)	Sat. classes begin
Feb. 19-20	Facility Work/Staff Development Days – <b><u>No Day</u></b> Classes
Feb.23 (M)	Last Day to drop Accelerated Session 1 classes Last day to apply for spring graduation
Mar.4 (W)	Midterm
Mar.6 (F)	Accelerated Session I Classes end
Mar 7 (S)	Academy for teaching Excellence –Professional Development
Mar.9 (M)	Accelerated Session II Classes Begin
Mar.11 (W)	Last Day to add Accelerated Session II Classes
Mar.16-19	Spring Break
Mar.20 (F)	Holiday – College Offices close
Apr.3 (F)	Holiday – College Offices close
Apr.13 (M)	Last Day to drop Regular Term session II Classes
Apr. 27 (M)	Last day to drop Accelerated Session II classes
May 8 (F)	Accelerated Session classes end
May 15 (F)	Regular Term session classes end
May 16 (S)	Spring graduation ceremony at Council Bluffs

## **Computer Usage**

The student will use a computer to communicate with the instructor via email, and to check their progress in this course on Sail.

## **Oral and Written Communications**

The students must be able to communicate effectively and concisely with fellow students and the instructor.

## **Problem Resolution**

If you have a conflict with me, concerns about my teaching and/or the course material, please discuss this first with me. If we cannot resolve the difficulty, contact David Hazlewood, Program Chair, at 712-325-3362 or [dhazlewood@iwcc.edu](mailto:dhazlewood@iwcc.edu).

## **Notice of Class Cancellation**

1. Emergency closing of entire campus such as for weather – Students will be notified through the Reiver Alert system. Students must register for this services; find Reiver Alert on your SAIL homepage.
2. Emergency cancellation of a class session such as for faculty illness – Students will be notified through an announcement on the SAIL course page if possible and/or a posted note on the classroom door.

### Course Topical Outline and Schedule

	Tuesday	Thursday
Jan 13-15	Chapter 1	Chapter 1 – Quiz/Daily Quiz
Jan 20-22	Chapters 5-6/Daily Quiz	Chapters 5-6 –Quiz/Daily Quiz
Jan 27-29	SMAW Practical Application/Daily Quiz	SMAW Practical Application/Daily Quiz
Feb 3-5	SMAW Practical Application/Daily Quiz	SMAW Practical Application/Daily Quiz
Feb 10-12	SMAW Practical Application/Daily Quiz	SMAW Practical Application/Daily Quiz
Feb 17-19	SMAW Practical Application/Daily Quiz	SMAW Practical Application/Lab Exam/ Daily Quiz
Feb 24-26	Chapter 9 /Daily Quiz	Chapter 9 – Quiz/Daily Quiz
Mar 3-5	GMAW Practical Application/Daily Quiz	GMAW Practical Application/Daily Quiz
Mar 10-12	GMAW Practical Application/Daily Quiz	GMAW Practical Application/Daily Quiz
Mar 24-26	SPRING BREAK	SPRING BREAK
Mar 31-Apr 2	GMAW Practical Application/Daily Quiz	GMAW Practical Application/Lab Exam/ Daily Quiz
Apr 7-9	Chapter 10/Daily Quiz	Plasma Arc Cutting Application/Lab Exam/ Daily Quiz
Apr 14-16	Chapter 12/Daily Quiz	Oxyfuel Gas Cutting Application/Lab Exam/ Daily Quiz
Apr 21-23	Chapter 17/Daily Quiz	Brazing and Braze Welding Application/Lab Exam/ Daily Quiz
Apr 28-30	Chapter 23/Daily Quiz	Chapter 23 – Quiz/Daily Quiz
Apr 5-7	Chapter 30/Daily Quiz	Chapter 30 – Quiz/Daily Quiz
May 12-14	Final Exam Review	Final Exam

- **Schedule is subject to change based on course instructor**

### **III. College Policy/Information**

#### **Honor Code – Academic Honesty**

Upon enrolling at Iowa Western Community College, each student assumes an obligation to conduct her/his academic affairs in a manner compatible with the standards of academic honesty established by the College and its faculty. If this obligation is neglected or ignored by the student, disciplinary action will be taken.

#### **Diversity Statement**

Iowa Western Community College values diversity and supports learning experiences that promote intellectual growth and human enrichment.

#### **American with Disabilities Act Statement**

If you are an individual with a disability who requires an accommodation to fully participate in academic programs or campus activities, please email [disabilityservices@iwcc.edu](mailto:disabilityservices@iwcc.edu) or call 712-325-3299. Accommodations are arranged through the Student Success Office, located in the Student Center (2<sup>nd</sup> floor). Please allow for adequate time to implement your accommodations.

*Any student with mobility impairments should prepare for an emergency ahead of time by instructing faculty and/or classmates on how to assist in case of an evacuation.*

#### **FERPA**

Student rights concerning access to educational records are spelled out in Federal Public Law 98-380 as amended by Public Law 93-568 and in regulations published by the Department of Education. The law and regulations require educational institutions to limit the disclosure of information from the student's record to those who have the student's written consent or to officials specifically permitted within the law. Students who wish to grant access to their class schedule, transcript of final grades, and progress reports may do so by submitting an Access to Student Information Consent Form to the Records and Registration Office. Access to information is only given at the Records and Registration Office.

For more information, including the full Access to Student Information policy, refer to the Iowa Western Community College General Catalog or contact the Records and Registration Office.

#### **Cyber-Library and Academic Support**

- Students can access books, magazines, journals, newspapers, films and audio books 24/7 through the *Cyber-Library* by clicking on the Cyber Library under Academics in ROC.
- For questions about finding information at your campus or center, email [cyberlibrary@iwcc.edu](mailto:cyberlibrary@iwcc.edu) or call 712-325-3247 for the Council Bluffs Campus or 712-542-5117 for the Clarinda Campus. You can find the library hours posted on ROC.

- FREE tutoring and academic assistance are available through the *Academic Support Center*, located on the second floor of the Student Center on the Council Bluffs campus in a variety of core, general requirement classes.
  - One-on-one assistance is available on a walk-in basis or by appointment for certain subjects.
  - Group tutoring is available, but must be scheduled in advance.
- FREE online tutoring is available through SMARTHINKING on ROC, to access SMARTHINKING, locate Online Tutoring next to My ROC Classes.
- For more information about tutoring services or help in your classes, email [tutoring@iwcc.edu](mailto:tutoring@iwcc.edu) or call 712-388-6841. A full tutoring schedule is posted by subject area on ROC.

### **Dropping Classes**

While we encourage you to do everything you can to complete your classes, it is always better to drop a class than to fail it. If it becomes necessary for you to drop a class you can drop a class online through ROC up to the last day to drop. We recommend that you always talk to your advisor and financial aid before you drop a class. For more information on dropping classes see the Advising Information Site in ROC under the Academics tab.

### **Personal Electronic Devices**

To provide an environment conducive to learning, Iowa Western Community College requires that cellular phones, pagers, and other personal electronic devices be turned off or set to vibrate when entering classrooms, computer labs, library, offices, auditoriums, or arena areas. Cellular phones with picture taking capabilities are not allowed in bathrooms, locker rooms or other areas where there is a reasonable expectation of privacy. Faculty members do have the right to prohibit the use of any electronic device in their classroom.

### **EQUAL EDUCATIONAL OPPORTUNITY AND NON-HARASSMENT**

Iowa Western Community College is committed to a policy of equal educational opportunity. Therefore the College prohibits discrimination on the basis of unlawful criteria such as race, color, creed, religion, national or ethnic origin, ancestry, genetic information, physical or mental disability, age, sex, sexual orientation, gender identity or expression, pregnancy, marital status, veteran status, AIDS/HIV status, citizenship, or medical condition, as those terms are defined under applicable laws, in admitting students to its programs and facilities and in administering its admissions policies, educational policies, scholarship and loan programs, athletic programs, and other institutionally administered programs or programs made available to students. In keeping with this policy of equal educational opportunity, the College is committed to creating and maintaining an atmosphere free from all forms of harassment.