



## **STEM Course**

**COURSE:** *ADM 232*

**Credits:** 4

**COURSE TITLE:** Welding

**INSTRUCTOR:**

**TERM:**

**DAY(S) AND TIME(S):**

**LOCATION:**

**OFFICE HOURS:**

**OFF. LOCATION:**

**EMAIL:**

**TELEPHONE:**

**COURSE DESCRIPTION:** This course introduces the students to the fundamentals of welding. It provides the student with opportunities for training in Shielded Metal Arc Welding (SMAW) and Tungsten Inert Gas (TIG) welding. This course prepares students for the Certified Welder Test accredited by the American Welding Society.

**COURSE PREREQUISITE:** Non

### **Safety:**

Please click the following link and review the safety rules. At the end, please select "Send me a copy of my responses" and forward that email to me as proof of completion.

<https://www.hccc.edu/programs-courses/academic-pathways/stem/stem-safety-contract.html>

### **STUDENT LEARNING OUTCOMES**

*Upon successful completion of this course, students will be able to:*

1. Summarize physical properties, chemical properties and mechanical properties of various metals;
2. Demonstrate the proper current settings for arc welding based upon the type and thickness of material to be welded;
3. Choose the correct filler rods and gases to weld steel and aluminum;

4. Use appropriate safety procedures set up Shielded Metal Arc Welding (SMAW and Tungsten Inert Gas (TIG) equipment for welding;
5. Demonstrate safety practices for cutting.

### **TEXTBOOK & SUPPLEMENTAL MATERIALS**

Modern Welding; 11<sup>th</sup>. Edition Althouse/Turnquist/Bowditch/Bowditch  
Goodheart-Wilcox Co., Inc.  
ISBN 978-1-60525-795-2  
ISBN: 978-0132912655

### **ATTENDANCE**

*Attendance is mandatory. For your reference, the college policy is generally that a student may fail a course due to lack of attendance if s/he missed more than 6 hours of instructional time for a 3-credit course.*

### **GRADING POLICY**

#### **BREAKDOWN OF GRADING:**

Midterm Exam:	20%
Writing Assignment	5%
Proficiency Assessments	75%
<b>Total</b>	<b>100%</b>

The grade scale for this class will be as follows:

93 – 100	= A
90-92.9	= A-
87-89.9	= B+
84-86.9	= B
80-83.9	= B-
76-79.9	= C+
70-75.9	= C
65-69.9	= D
Below 65	= F

### **CELL PHONE USE POLICY**

*Cell phones are not allowed during exams.*

### **MANDATORY USE OF HCCC EMAIL ADDRESS**

Members of the HCCC community are required to check their official HCCC email address in order to stay current with College and course communications. All college business communication between faculty, students, and staff must be sent via an official HCCC email address. If an employee or student elects to forward or link his/her HCCC email to a separate and private account, that individual remains responsible for all material transmitted to that account. Employees of HCCC shall not be responsible for any material that remains undelivered, due to defects in the private non-HCCC accounts. Failure in the operations of private email accounts

shall not be cause for excuse from communications between the student and the employee. Students that encounter difficulty with HCCC email should view the FAQ's section on the Portal.

### **INCOMPLETE**

An INCOMPLETE grade for the course is given under specific conditions when a student, because of serious and unexpected reasons, cannot complete the requirements of the course. For example, if a student did not attend the final because of illness his or her excuse must be verified by a physician. Other absences from other assigned activities must be made up at another appointed time. To arrange for an incomplete grade, the student must see the instructor before final exam, so proper documentations could established and submitted to Division and The office of Academic Affairs.

### **DISABILITY SUPPORT SERVICES:**

Students with disabilities who believe that they might need accommodations in this class are encouraged to contact Disability Support Services at (201) 360-4157, as soon as possible to better ensure that such accommodations are implemented in a timely fashion. All disabilities must be documented by a qualified professional such as a Physician, Licensed Learning Disabilities Teacher Consultant (LDTC), Psychiatrist, Psychologist, Psychiatric Nurse, Licensed Social Worker or Licensed Professional Counselor, who is qualified to assess the disability that the student claims to have and make recommendations on accommodations for the student. All information provided to the Disability Support Services Program will be confidential between the program, professors involved with the student and individual student.

### **ACADEMIC INTEGRITY**

#### Academic Integrity Standards

Academic integrity is central to the pursuit of education. For students at HCCC, this means maintaining the highest ethical standards in completing their academic work. In doing so, students *earn* college credits by their honest efforts. When they are awarded a certificate or degree, they have attained a goal representing genuine achievement and can reflect with pride on their accomplishment. This is what gives college education its essential value.

#### Violations of the principle of academic integrity include:

- Cheating on exams.
- Reporting false research data or experimental results.
- Allowing other students to copy one's work to submit to instructors.
- Communicating the contents of an exam to other students who will be taking the same test.
- Submitting the same project in more than one course, without discussing this first with instructors.
- Submitting *plagiarized* work. *Plagiarism* is the use of another writer's words or ideas without properly crediting that person. This unacknowledged use may be from published books or articles, the Internet, or another student's work.

#### Violations of Academic Integrity

When students act dishonestly in meeting their course requirements, they lower the value of education for all students. Students who violate the college’s policy on academic integrity are subject to failing grades on exams or projects, or for the entire course. In some cases, serious or repeated instances of academic integrity violations may warrant further disciplinary action.

Detailed information on the College’s Academic Integrity policy may be found in the *HCCC Student Handbook*. The handbook also contains useful information for students on completing research projects and avoiding plagiarism.

Hudson County Community College has many supportive services available to help meet your goals. Below are resources available to you:

<p><b>SECURITY:</b> Main Campus: 201-360-4080 North Hudson Campus: 201-360-4777</p>	<p><b>NATIONAL SUICIDE PREVENTION LIFELINE:</b> 1-800-273-8255 <b>CRISIS TEXT LINE:</b> Text “HELLO” to 741-741</p>	
<p><b>IN AN EMERGENCY, PLEASE CONTACT SECURITY OR 911.</b></p>		
<p><b>Department</b></p>	<p><b>Journal Square Campus</b></p>	<p><b>North Hudson Campus</b></p>
<p><b>Counseling Services</b> <a href="mailto:counseling@hccc.edu">counseling@hccc.edu</a></p>	<p>201-360-4150 A Building, 2<sup>nd</sup> Floor <a href="https://my.hccc.edu/advisement">https://my.hccc.edu/advisement</a></p>	<p>201-360-4627 1<sup>st</sup> Floor, Enrollment Center <a href="https://my.hccc.edu/advisement">https://my.hccc.edu/advisement</a></p>
<p><b>Advising Services</b> <a href="mailto:advising@live.hccc.edu">advising@live.hccc.edu</a></p>		

<b>Accessibility Services</b> <a href="mailto:as@hccc.edu">as@hccc.edu</a>	201-360-4163 A Building, 2 <sup>nd</sup> Floor <a href="https://my.hccc.edu/as">https://my.hccc.edu/as</a>	201-360-4163 1 <sup>st</sup> Floor, Enrollment Center <a href="https://my.hccc.edu/as">https://my.hccc.edu/as</a>
<b>Career Services</b> <a href="mailto:career@hccc.edu">career@hccc.edu</a>	201-360-4184 A Building, 3 <sup>rd</sup> Floor <a href="https://my.hccc.edu/career-services">https://my.hccc.edu/career-services</a>	201-360-4138 2 <sup>nd</sup> Floor, Room 204 <a href="https://my.hccc.edu/career-services">https://my.hccc.edu/career-services</a>
<b>Food Pantry</b> <a href="mailto:foodpantry@hccc.edu">foodpantry@hccc.edu</a>	201-360-4701 J Building, Lower Level Room 002 <a href="https://my.hccc.edu/hudson-helps">my.hccc.edu/hudson-helps</a>	201-360-4709 5 <sup>th</sup> Floor, Room 513A <a href="https://my.hccc.edu/hudson-helps">my.hccc.edu/hudson-helps</a>
<b>Financial Aid</b> <a href="mailto:financial_aid@hccc.edu">financial_aid@hccc.edu</a>	201-360-4200 A Building, 2 <sup>nd</sup> Floor <a href="https://my.hccc.edu/fa">https://my.hccc.edu/fa</a>	201-360-4214 1 <sup>st</sup> Floor, Enrollment Center <a href="https://my.hccc.edu/fa">https://my.hccc.edu/fa</a>
<b>Information Technology Services</b> <a href="mailto:itshelp@hccc.edu">itshelp@hccc.edu</a>	201-360-4310 A Building, Lower Level <a href="https://my.hccc.edu/its">https://my.hccc.edu/its</a>	201-360-4309 3 <sup>rd</sup> Floor, Room 309 <a href="https://my.hccc.edu/its">https://my.hccc.edu/its</a>
<b>Library</b> Journal Square <a href="mailto:librarian@hccc.edu">librarian@hccc.edu</a> North Hudson <a href="mailto:librarynhc@hccc.edu">librarynhc@hccc.edu</a>	201-360-4360 L Building, 1 <sup>st</sup> Floor <a href="http://www.hccclibrary.net/">http://www.hccclibrary.net/</a>	201-360-4623 3 <sup>rd</sup> Floor <a href="http://www.hccclibrary.net/">http://www.hccclibrary.net/</a>
<b>Tutoring Center</b> <a href="mailto:tc@hccc.edu">tc@hccc.edu</a>	201-360-4187 L Building, Lower Level <a href="https://my.hccc.edu/tutoring">https://my.hccc.edu/tutoring</a>	201-360-4779 7 <sup>th</sup> Floor, Room 704 <a href="https://my.hccc.edu/tutoring/">https://my.hccc.edu/tutoring/</a>
<b>Writing Center</b> <a href="mailto:wc@hccc.edu">wc@hccc.edu</a>	201-360-4370 J Building, Room 204 <a href="https://my.hccc.edu/tutoring">https://my.hccc.edu/tutoring</a>	201-360-4779 7 <sup>th</sup> Floor, Room 704 <a href="https://my.hccc.edu/tutoring/">https://my.hccc.edu/tutoring/</a>

Hudson County Community College is committed to the creation of an inclusive and safe learning environment for all students. The Office of Accessibility Services is responsible for determining reasonable accommodations for students who encounter barriers due to disability (conditions can include but are not limited to: mental health, attention-related, learning, cognitive/developmental, vision, hearing, physical or health impacts). When the student completes the request process and reasonable accommodations are determined to be necessary and appropriate, an Accommodation Letter (Letter) will be provided. The student must provide the Letter to each course instructor. This should be done as early in the semester as possible as accommodations are not retroactive.

You can contact Accessibility Services by phone at 201-360-4157, by email at [as@hccc.edu](mailto:as@hccc.edu); visit their website at <https://www.hccc.edu/student-success/personal-support/accessibility-services.html> or visit them at 71 Sip Avenue, L010/L011, Jersey City, NJ and all information provided will be kept confidential.

Hudson County Community College (HCCC) fosters a welcoming environment that celebrates and encourages culturally responsive curricula, respects diverse viewpoints, and values discussions without censure or hostility. Our classrooms are strengthened by embracing all student voices and identities. The President's Advisory Council on Diversity, Equity, and Inclusion (PACDEI) encourages students to review DEI resources and initiatives at the following link:

<https://myhudson.hccc.edu/teamsites/Pages/pacdei.aspx>

Tentative Schedule:

Week 1: Introduction and Safety

Week 2: Flat Welding

Week 3: Flat Welding

Week 4: Proficiency Assessment on Flat Welding (G1)

Week 5: Horizontal Welding

Week 6: Horizontal Welding

Week 7: Proficiency Assessment on Horizontal Welding (G2)

Week 8: Vertical Welding

Week 9: Vertical Welding

Week 10: Proficiency Assessment on Vertical Welding

Week 11: TIG welding

Week 12: Overhead Welding

Week 13: Welding in General

Week 14: Welding in General

Week 15: Welding in General