

WLDG-1425-301CL Oxy-Acetylene Welding and Cutting, And Other Cutting Processes Fall 2023 MTWTH 7:00AM - 8:45AM

Instructor: VICTOR WOODS, wwoods@com.edu, 409-933-8380 or 409-933-8321

Student hours and location MTWTH,6:30AM-7:00AM ;3:15PM – 4:20PM, Welding Technology Office

Required Textbook: Welding Principles and Applications (Larry Jeffus)

(ISBN-13: 978-1-111-03918-9) (ISBN-10: 1-111-03918-6) (ISBN-13: 978-1-111-03917-2) (ISBN-10: 1-111-03917-8)

The Hard back and Lab book is required.

Course Description

An introduction to oxy-fuel welding and cutting, including history and future in welding, safety, setup and maintenance of oxy-fuel welding, and cutting equipment and supplies. The student will describe or explain oxy-fuel welding and cutting safety procedures and identify and classify fuels and filler metals. The student will perform entry level oxy-fuel welding and cutting operations and select proper equipment and materials

Course requirements:

WLDG 1425 Lab Assignments	Performance Rating	Date Completed	Instructor's Initials	Trainee's Initials
Plasma Arc Cutting				
Perform safety inspections of equipment and accessories		,		
2. Operate manual plasma arc cutting equipment				
3. Perform cutting on Tee Plates				
4. Perform cutting on 3/8 "plates				
5. Perform cutting on pipe				
Air Carbon Arc Cutting				
6. Perform safety inspections of equipment and accessories				

7. Operate manual air carbon arc cutting equipment		
8. Perform removing welding from tee plates		
9. Perform removing welds from 3/8" plates		
10. Perform removing welds from pipe		
Machine Oxy-fuel Gas Cutting		
11. Perform straight cutting operations on plain carbon steel		
12. Perform bevel cutting operations on plain carbon steel		
Manual Oxy-fuel Gas Cutting and Welding		
13. Operate manual oxy-fuel gas cutting equipment		
14. Perform straight cutting operations on plain carbon steel		
15.Perform beveled cutting operations on plain carbon steel		
16. Remove weld metal on plain carbon steel using weld washing techniques		
17. Perform straight cutting operations on carbon steel pipe		
18 Perform beveled cutting operations on carbon steel pipe 5G		
19. Perform Manual oxy-fuel gas welding on plain carbon steel		

Determination of Course Grade/Detailed Grading Formula

- 1. The student must meet AWS standards on all workmanship qualifications.
- 2. 25% of the grade is homework, all homework must be completed to take the exam or it is a 0 on exam, 25% written exams, and 50% is skills test
- 3. Student must have a 65-70 on Exams and complete Lab Objectives 1 thru 7=D
- 4. Student must 71 thru 80 on Exams and complete Lab Objectives 1 thru 8=C
- 5. Student must 81 thru 90 on Exams and complete Lab Objectives 1 thru 9=B
- 6. Student must 91 thru 100 on Exams and complete Lab Objectives 1 thru 10=A

Late Work, Make-Up, and Extra -Credit Policy:

Make-up exams must be scheduled with your professor but must be scheduled within 7 days of the original test date or you will receive a zero for the test. Make-up exams may score no higher than 90% unless the make-up exam was scheduled prior to the original exam date. At the instructor's discretion, make up exams may be in a different format from the scheduled exam. Labs and homework not turned in on the due date will be scored at 80% of the maximum

Attendance Policy: Attendance and Tardiness will be taken each class period. More than 6 Absences can result in being dropped from Class!!!!

Communicating with your instructor: ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
Demonstrate oxy-fuel welding	Teamwork	Homework, Written Exams,
and cutting safety procedures		Lab Manual Quiz Chapter 7.
		Students will do a safety
		inspection in the welding lab
		as a group of two or more
		students in front of the
		instructor
Identify and classify fuels and	Critical thinking	Homework, Written Exams,
filler metals		Lab Manual Assignment.
		Welding Quiz Chapter 8.
Perform entry-level oxy-fuel	Critical thinking	Homework, Written Exams,
welding and cutting operations		Lab Manual Quiz Chapter 9
Select proper equipment and	Critical thinking	Homework, Written Exams
materials.		Lab Manual Quiz Chapter 32

Academic Dishonesty: Any incident of academic policy will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for the appropriate discipline action

Concerns/Questions Statement: If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Derrick Lewis Department Chair 409 933-8607/dlewis22@com.edu.

Course outline:

Week#	Day/Date	Topic	Reading Assignments & Homework Due Dates
	M 8-28-23		
1	W 8-30-23	Welding Lecture 2 hours Lab	Chapter 7 key terms 1 thru 12

	136		
	M 9-4-23	Closed Labor Day	
2	W	Welding Lecture	Chapter 7 key terms 13
	9-6-23	2 hours lab	thru 25
	M	Welding Lecture	Chapter 7 key Terms
	9-11-23	2 hours lab	26 thrun37
3	W	Welding Lecture	
	9-13-23	2 hours lab	Chapter 7 key terms
	M	Welding Lecture	45 minutes time limit
	9-18-23	2-hour lab	on quiz. No make-up
4			on quiz
	W	Welding Lecture	Chapter 7 review
	9-20-23	2-hour lab	questions 1 thru 18
	M	Welding Lecture	Chapter 7 review
5	9-25-23	2 hours lab	questions 19 thru 33
	W	Welding Lecture	Chapter 7 review
	9-27-23	2 hours lab	questions 34 thru 52
	M	Class Review and Exam on Chapter 7	3-hour time limit on
6	10-2-23	-	exam
	W	Welding Lecture	Chapter 8 key terms 1
	10-4-23	2-hour lab	thru 9
	M	Welding Lecture	Chapter 8 key terms 10
7	10-9-23	2-hour lab	thru 17
,	W	Welding Lecture	Chapter 8 key terms 18
	10-11-23	2-hour lab	thru 26
	M	Class Review and Quiz # 2 on Chapter 8	45 minutes time limit
8	10-16-23	2 hours lab	on quiz. No make-up
			on quiz
	W	Welding Lecture	Chapter 8 review
	10-18-23	2-hour lab	questions 1 thru 9
9	M	Welding Lecture	Chapter 8 review
-	10-23-23	2-hour lab	questions 10 thru 18
	W	Welding Lecture	Chapter 8 review
	10-25-23	2-hour lab	questions 19 thru 27
	M	Welding Lecture-Simulator	
10	10-30-23	2 hours lab	2.1
_	W	Class Review and Exam on Chapter 8	3-hour time limit on
	11-1-23	-	exam
	M	Welding Lecture	Chapter 9 key terms 1
11	11-6-23	2 hours lab	thru 10
_	W	Welding Lecture	Chapter 9 key terms 11
	11-8-23	2-hour lab	thru 20
	M	Class Review and Quiz # 3 on Chapter 9	45 minutes time limit
	11-13-23	2 hours lab	on quiz. No make-up
12			on quiz
	W	Welding Lecture	Chapter 9 review
	11-15-23	2-hour lab	questions 1 thru 18
13	M 11-20-23	Class review and Exam on Chapter 9	3-hour time limit on exam
	W	Welding Lecture	Chapter 32 key terms 1
	11-22-23	2-hour lab	thru 15
	M	Welding Lecture	Chapter 32 key terms
14	11-27-23	2-hour lab	16 thru 25
			10 unu 23
	W	Welding Lecture	

	11-29-23	2-hour lab	
15	M 12-4-23	Class Review and Quiz # 4 on Chapter 32 2 hours lab	Chapter 32 review questions 1 thru 15
	W 12-6-23	Welding Lecture 2-hour lab	Chapter 32 review questions 16 thru 29
16	M 12-11-23	Class review and Exam on Chapter 32	3-hour time limit on exam
	W 12-13-23	Last Day of class	

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook https://www.com.edu/student-services/docs/Student_Handbook_2023-2024_v2.pdf. An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact Kimberly Lachney at 409-933-8919 or klachney@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is October 11. The last date to withdraw from the 16-week session is November 28. The last date to withdraw for the 2nd 8-week session is December 7.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty

completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here https://www.com.edu/community-resource-center/. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.

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SYLLABUS CHANGES:

The instructor reserves the right to make changes to this syllabus during the semester as needed to facilitate instruction and/or course needs.

The Speaking, Reading and Writing Center provides free tutoring services to students, staff and faculty seeking assistance for writing, reading and oral presentations for academic and non-academic assignments/projects. Located in the Technical Vocational Building 1306, the center provides face to face and online tutoring sessions in a welcoming environment. Appointments can be made in person, or on the center scheduler at com.mywconline.com, or by clicking the SRWC icon on the COM website.

Run, Hide, Fight *

https://www.youtube.com/watch?v=5VcSwejU2D0

Surviving an Active Shooter Event - Civilian Response to Active Shooter https://www.youtube.com/watch?v=j0It68YxLQQ

Welding Safety Rules

- 1. No Horseplay of any kind
- 2. No lighters or matches in the welding lab.
- 3. Safety glasses(Z87) or prescription glasses with Z87 frame and lens MUST be always worn in labs and outside when students are working, sunglasses are NOT acceptable.
- 4. Shaded cutting goggles or shaded cutting face shield must be worn when cutting with safety glasses.
- 5. Never use machinery or equipment unless instructed by faculty instructor or lab assistant.
- 6. Proper fitting clothing must always be worn in the lab (100% cotton, FRC)
- 7. Report all accidents immediately!
- 8. Grinding shields must be worn when grinding with safety glasses.
- 9. No tobacco of any type in the welding building
- 10. No spitting anywhere in the welding labs

- 11. Welding hoods with a shade of 9,10,11 or 12 must be worn while welding.
- 12. Tool rest for tungsten grinder must be maintained at 1/16 distance from wheel.
- 13. Gloves are required while welding, cutting, and handling metal in the welding lab.
- 14.FAILUE TO FOLLOW SAFETY RULES WILL RESULT BEING REMOVED FROM CLASS

Sign		