



**Course Syllabus
SEMESTER
School of Science, Technology, Engineering, and Mathematics**

Course Name:	Advanced GTAW Welding
Course & Section Number:	WLD 270-XXX
Meeting Day(s) & Time(s):	
Credits:	2
Contact Hours:	4
Instructor's Name:	
Office Hours & Location:	
OCC Phone:	
OCC Email: *	

*Please use only Owens email for course communications.

Catalog description:

An extension of WLD 266, this course emphasizes aluminum, Stainless steel and tool steel TIG welding.

Prerequisite/Corequisites:

WLD266

Course Materials: Course Materials:

<u>Welding Level 1 6th Ed</u> by NCCER ISBN13: 9780137924530 Format: Paperback Publisher(s): Pearson	<u>Welding Level 2 6th Ed</u> by NCCER ISBN13: 9780138216160 Format: Paperback Publisher(s): Pearson
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*If a **print book, e-book, or access code** is required for class, you can access the Owens Community College e-Campus Bookstore by accessing the online link, called "Find Books" on the course schedule for each course section. See the example below.*

OER and Owens Community College Library Resources (Open Educational Resources are free online materials for instructor and student use. Some OER material may be available in print in the Owens Community College Library.)

Inclusive Access (I.A.) Materials are included in the cost of the course to save students money through lower negotiated rates with publishers. Courses containing I.A. materials will have it noted on the online class schedule. If your course includes I.A. digital materials, you will receive an email with subject line, “Your inclusive Access Materials,” and it will include any codes or digital links.

The email will come to your Owens Community College email from the Owens e-Campus Bookstore on the first day of class, if not before. Be sure to check your spam (junk email) if you do not find it in your inbox. If the email is not in your inbox or spam folder, contact your instructor immediately. You may also see a folder at the top of your course labelled “Course Materials by eCampus.” This folder will contain any needed codes or links to needed materials.

If the I.A. materials also include a printed book or are in print form, the item will be shipped to your address of record automatically based on your enrollment in the course. Please note that some courses do not include printed materials in I.A and those materials would need to be purchased separately using the link on the course schedule. When you access the Find Books link you will see which items in a course are included in I.A.

What You Will Learn in the Course

Course Objectives:

1. Understand basic welding terminology and safety
2. Have a good working knowledge of GTAW welding principles and practices
3. Know and understand basic AC/DC GTAW equipment
4. Be able to identify various ferrous and non-ferrous metals
5. Know how to perform flat and advanced GTAW, using correct shielding gas and filler rods

Student Learning Outcomes:

Outcome	Where Assessed
1. Perform GTAW on tool steel a. All positions and thickness b. Pipe	Lab Test
2. Perform GTAW on aluminum a. All positions and thickness	Lab Test
3. Perform GTAW on stainless steel a. All positions and thickness	Lab Test
4. Perform setup and adjust GTAW equipment a. All materials	Lab HW Test

Institutional General Education Competencies:

As a student at Owens Community College, you will take General Education courses as part of your degree program. While specific to the General Education courses, will be reinforced in many of your degree program major courses and may be measured in your capstone course(s) and others as identified.

Competency	Where Assessed
Communicate effectively.	Lab, HW, Test
Act with professional responsibility.	Lab
Think analytically, critically, and creatively.	Lab, HW, Test

Academic Support

Disability Services Resource Center: If you have a disability or acquire one, you may be entitled to receive reasonable accommodations intended to assure you an equal opportunity to participate in and benefit from the program. To receive more information or to register for accommodations, please contact the Disability Resource Center at 567-661-7007, email disability@owens.edu, visit <https://www.owens.edu/disability/>, or stop by College Hall 124.

Tutoring Services: Owens Community College offers academic tutoring and assistance in a variety of subjects including: accounting, computing, economics, mathematics, science, and

writing. For more information go to: <https://www.owens.edu/successcenters/>.

Counseling Services: Counseling Services provides assistance to students experiencing personal, educational, interpersonal/relationship, family, social, or psychological difficulties. If you feel you may benefit from this service, please contact them at counselingservices@owens.edu. More information is at <https://www.owens.edu/counseling/>.

Campus and Community Connections: The Center for Campus and Community Connections (College Hall 151) is a walk-in office created to provide retention support through resource stability initiatives and community connections. Go here for more information: <https://www.owens.edu/connection/> or contact connections@owens.edu

Owens Library: The Owens Library offers two locations (Toledo and Findlay) as well as online resources. For more information visit <https://www.owens.edu/library/>.

Students can find more information on campus resources, student support, student life, and security at this [link](#).

General Information

Student Code of Conduct: All students are expected to follow Owens Community College's Student Code of Conduct, which includes academic honesty, encompassing plagiarism. See the Board Policy for more information.

Anti-Discrimination and Harassment & Title IX/Sexual Misconduct: All students, faculty, and staff are expected to follow Owens Community College's Anti-Discrimination and Harassment Policy and the College's Title IX Policy/Sexual Misconduct Procedures and Guidelines. The College strictly prohibits and will not tolerate harassment, discrimination, intimidation, or hostile/offensive working or learning environments.

Religious Accommodations: A student seeking an accommodation for an absence permitted under Ohio's Testing Your Faith Act must provide the instructor with a written email notice with the specific dates for an absence, and must do so not later than fourteen (14) days after the first day of instruction. Alternative accommodations are not retroactive, and no academic penalty will be imposed for an absence under the policy*. The request for an alternative accommodation will be kept confidential. Students with questions about a religious accommodation under Ohio's Testing your Faith Act may contact the College's Office of Academic Affairs: provost@owens.edu. The policy may be found on the Owens website: [3358:11-2-63 Accommodation](#) for a Student Absence for the Observance of Religious Beliefs and Practices Policy

Document Collection: Throughout the semester, your instructors may ask for a variety of assignments including tests and/or quizzes for student learning of institutional general education competencies or program assessment. Please save all your class materials until the end of the semester.

Classroom Admittance: OCC classes shall only be attended by the officially registered OCC students or perspective students, instructor of record, guest lecturer, or substitute. Visitors are not permitted to be in the classroom and should not be invited to attend or participate in the class. See

[FERPA](#) regulations for more information.

Use of AI Tools: This course requires you to complete various assignments that assess your understanding and application of the course content. You are expected to do your own work and cite any sources you use properly. You are not allowed to use any artificial intelligence (AI) tools, such as chatbots, text generators, paraphraser, summarizers, or solvers, to complete any part of your assignments. Any attempt to use these tools will be considered academic misconduct and will be dealt with according to the Owens Community College academic integrity policy. Students are expected to complete all work independently and without the assistance of AI-generated content. If you have any questions about what constitutes acceptable use of AI tools, please consult with the instructor *before* submitting your work.

Student Responsibilities & Instructor Expectations

Student Responsibilities:

1. Students are expected to conduct themselves in a professional manner during class and lab. It is expected that you will treat me and other students respectfully, participate actively, and refrain from distracting behavior, such as:
2. Using electronic devices for non-class activities (phones, laptops, etc.)
3. Working on homework or other class work during lecture or class discussions
4. Slouching, putting head down, sleeping, etc.
5. The student is responsible for obtaining any missed notes, handouts or assignments, and turning them in on time. Lecture notes will generally be available on Blackboard.
6. Students who added the class after the first day are responsible for arranging for the missed work to be made up.
7. Class attendance is not mandatory but is recorded. Participation in class and labs is expected and counts to the final grade.
8. Tests, assignments and labs will be scheduled at the discretion of the instructor. Changes from the schedule given in this syllabus will generally be communicated in class at least a week before the test.
9. All general rules presented in the student handbook will be observed. If plagiarism is detected on a written assignment or lab report, you will receive a zero for that assignment. If it is detected a second time, you will fail the course.
10. Classroom attire will be casual, Lab attire requires proper PPE.
11. If you have an issue that may interfere with this class, early communication is important to allow solutions to be implemented.

Instructor Expectations:

Class will be split into two parts, Lecture, and Lab. Homework and tests will be provided online via Blackboard. Any changes to class time or location will be communicated via Owens email as soon as possible.

Classroom Environment:

No work can be conducted in the lab unless the instructor has given the go ahead and is in the room. No smoking (including vaping), chewing (tobacco or otherwise), eating, or drinking.

How Grades are Determined and Major Assignments

Evaluation Measure The grade points for the areas of work are as follows.	Student Learning Outcomes Assessed	Value
Homework x10	1 – 4	100
Task list	1 – 4	200
Test x2	1 – 4	100
Lab	1 – 4	500
Attendance		100
Total		1000 points

The final course grade is to be computed using the following weights.

Evaluation Measure	Value	Student Learning Outcome Assessed
Homework x 10	10%	1 – 4
Task list	20%	1 – 4
Tests x 2	10%	1 – 4
Lab	50%	1 – 4
Attendance	10%	1 – 4

Grading Scale

Grade	Points
A	900-1000
B	800-899
C	700-799
D	600-699
F	0-599

Grading Procedure:

Grades will be calculated on the following scale.

90% and Above	A
80% to Less than 89%	B
70% to Less than 79%	C
60% to Less than 69%	D
Less Than 60%	F

Tentative Schedule:

	WLD270 Advanced GTAW			
	Lecture topic	Lab	Reading	HW Due
week 1	Syllabus and safety			
week 2	Machine operation and setup	Tool steel		
week 3	Tungsten Prep and torch setup	Tool steel		
week 4	Machine controls	Tool steel		
week 5	Gas selection and purpose	Tool Steel		
week 6	Stainless	Stainless		
week 7	Cont. task list	Stainless		
week 8	Test	Stainless		
week 9	Types of tungsten	Stainless		
week 10	Aluminum	Aluminum		
week 11	Cont. task list	Aluminum		
week 12	Cont. task list	Aluminum		
week 13	Cont. task list	Aluminum		
week 14	Cont. task list	Open		
week 15	Cont. task list	Open		
week 16	Final			

Disclaimer: The instructor reserves the right to amend this syllabus as deemed necessary and will communicate such amendment to the students in the course. Please note that while unlikely, there is a possibility courses might need to change the delivery method due to external issues like public health concerns, weather issues, etc. If this happens, the college will communicate any changes via email and/or other communication methods.