

Course Syllabus

Department : Welding Technology
Course Title : Intro to Gas Tungsten Arc-Tig
Section Name : WLDG_1434_600
Start Date : 05/31/2011
End Date : 07/07/2011
Modality : FACE-TO-FACE
Credits : 4

Instructor Information

Name : Randall Switzer
OC Email : rswitzer@odessa.edu
OC Phone # : (432) 335-6306

Course Description

An introduction to the principles of gas tungsten arc welding (GTAW), setup/use of GTAW equipment and safe use of tools and equipment. Welding instruction in various positions on joint designs. The student will describe various joint designs; describe safety rules and equipment; and describe the effects of welding parameters in GTAW; and will weld various structural materials. Competencies include advanced skills using gas tungsten arc welding (GTAW) technology. Presents advantages and disadvantages of different shield and purge gases. Welds tested by AWS standards. Student will learn problem-solving techniques specific to GTAW.

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Prerequisites/Corequisites

WLDG 1421 or consent of the department chair.

Scans

SCANS 8, 9

Course Objectives

Describe various joint designs; describe safety rules and equipment; and describe the effects of welding parameters in GTAW; weld various structural materials

The student will acquire and evaluate information pertaining to the use of torches and regulators, flame adjustment, and arc welding on common metals and safe procedures for handling welding equipment. Emphasis is placed on student's ability to acquire and apply new knowledge and skills.

Required Readings/Materials

a) You must purchase the following *required* readings/materials:

b) You are encouraged to buy the following *optional* books/materials

Course Requirements (Lectures, Assignments and Assessments)

Topic/Overview: This week focuses on
Summary of Assignments & Activities

Item(Name)	Type	Description	Due
week 1- week 2	Discussion/ Lab/ Homework/ Test	ch.1,2,3	TBA
week 3- week 4	Discussion/ Lab/ Homework/ Test	ch.4,5,6	TBA
week 5	Discussion/ Lab/ Homework	ch.10,11,14,15	TBA
week 6	Final Exam	ch.1,2,3,4,5,6,10,11,14,15	TBA

Grading Policy

Each week, I will provide grades or scores and comments on assignments within 6 days of when they were submitted. After I send feedback each week, I will post a notification in the **Main** forum. Late assignments receive a 10% deduction for each day they are late if assignments are not posted by 11:59 p.m. central on the day they are due. Assignments more than 5 days late will not be accepted. Technological issues will not be considered as valid grounds for late assignment submission. In the event of a server outage, students should submit assignments to the instructor.

Percentage %	Grade
95+	A
90-94	A-
87-89	B+
84-86	B
80-83	B-
77-79	C+
74-76	C
70-73	C-
67-69	D+
64-66	D
60-63	D-
<59	F

Special Needs

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

Learning Resource Center (Library) The Library, known as the [Learning Resources Center](#), provides research assistance via the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). [Research guides](#) covering specific subject areas, [tutorials](#), and the "[Ask a Librarian](#)" service provide additional help.

Student E-mail Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Student Portal Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Technical Support For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

Important School Policies

For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or student's and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).

