

Intro to Gas Metal Arc Welding

Faculty Information



Name: James Mosman

E-Mail: jmosman@odessa.edu

Phone: 432-335-6474

Office: 145A

Office Hours

Campus Office Hours:

As posted

Online Office Hours:

(Online Office Hours Here)

Preferred Method of Communication:

Please email for any additional information.

Expectations for Engagement for Instructor:

As an instructor, I understand the importance of clear, timely communication with my students. In order to maintain sufficient communication, I will

- provide my contact information at the beginning of the syllabus;
- respond to all messages within 24 hours if received Monday through Thursday, and within 48 hours if received Friday through Sunday; and,
- notify students of any extended times that I will be unavailable and provide them with alternative contact information (for me or for my supervisor) in case of during the time I am unavailable.

As an instructor, I understand that my students will work to the best of their abilities to fulfill the course requirements. In order to help them in this area, I will

- provide clear information about grading policies and assignment requirements in the course syllabus, and
- communicate any changes to assignments and/or to the course calendar to students

as quickly as possible.

As an instructor, I understand that I need to provide regular, timely feedback to students about their performance in the course. To keep students informed about their progress, I will

- post grades for discussion postings within one week of the discussion thread closing.
- provide grades for major assignments within 2 weeks of the due date or at least 3 days before the next major assignment is due, whichever comes first.

Textbook Information and Required Hardware/Software

Required Texts:

Gas Metal Arc Welding Handbook
William Minnick, Goodheart-Willcox, 5th edition
ISBN: 978-1-59070-866-8

Required Equipment:

1. Welding Hood with shade 10 or darker lens or auto-dark lens
2. Welding Cap
3. Welding Gloves
4. Safety Glasses or Goggles or Face Shield
5. Cutting Goggles or Face Shield
6. Spark striker
7. Chipping hammer
8. Hand wire brush
9. Combination Square
10. Welding Shirt or Jacket
11. Notebook & Pen/Pencils

All students **must** have equipment by the 3rd class period or arrangements made with instructor.

You are encouraged to buy the following *optional* supplies.

1. Welding Leather sleeves
2. 25 foot tape measure
3. 2nd pair of Welding Gloves

Information About the Course

Course Description:

WLDG 1430 Introduction to Gas Metal Arc Welding (GMAW) (48.0508) (2-6) 4 hours

A study of the principles of gas metal arc welding, setup and use of GMAW equipment, and safe use of tools/equipment. Instruction in various joint designs. The student will describe welding positions with various joint designs on plate; describe safety rules and equipment used; describe the effects of welding parameters in GMAW; and understand safety rules, equipment used and testing performed by visual inspection. Student will weld various types of structural material and diagnose welding problems and perform visual inspections. Lab fee required. (ICOs 1)

Course Student Learning Outcomes

Outcome	ICO
The student will use these skills to develop welded pipe and plate designs and fabricate projects.	Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
Students will follow written and verbal instructions to fabricate welded projects.	Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication
The student will use numerical data to design, and understand welding related prints and projects.	Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Students will develop work skills and habits necessary to work in a manufacturing environment as part of a production team.	Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
Students will develop ethical choices, actions and consequences for the production and inspection of welded products used in a manufacturing environment.	Personal Responsibility - to include the ability to connect choices, actions and consequences to ethical decision-making

Students will use their skills and knowledge to engage in community outreach and volunteer programs. The students will become effective community citizens through these activities.	Social Responsibility - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities
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Course Prerequisites:

Prerequisites: WLDG 1417 and consent of department chair.

Grading

<i>Type of Assignment</i>	<i>Percentage/Points</i>	<i>Learning Objective</i>
Homework Avg.	10%	
Section Quiz Total	20%	
Lab Work	50%	
Professionalism	10%	
Final Exam	10%	
	100%	TOTAL

Grading Scale:

"A" = 90-100

"B" = 80-89

"C" = 70-79

"D" = 60-69

"F" = 0-59

Student Course Participation

As a student, I understand that I am responsible for keeping up with the course. To help with this, I will

- identify alternative computer and internet access in case my primary computer crashes or my internet service is unavailable;
- recognize that the college provides free wi-fi and computer labs during regular campus hours to help me with accessing my course; and,
- understand that my instructor does not have to accept my technical issues as a legitimate reason for late or missing work if my equipment or service is unreliable.

As a student, I understand that it is my responsibility to communicate quickly with the instructor any issue or emergency that will impact my involvement with or performance in the class. This includes, but is not limited to

- getting “kicked off” of the system during tests or quizzes;
- having trouble submitting assignments; and
- dealing with a traumatic personal event.

As a student, I understand that it is my responsibility to understand course material and requirements and to keep up with the course calendar. While my instructor is available for help and clarification, I will

- seek out help from my instructor and/or from tutors;
- ask questions if I don’t understand; and
- access my course several times during the week to keep up with assignments and announcements.

As a student, I understand that I will have the opportunity to provide feedback on my experience in this course through an end-of-course Student Evaluation of Instruction (SEI).

Course Policies

Disclaimer

This syllabus is tentative and subject to change in any part at the discretion of the instructor. Any changes will be in accordance with Odessa College policies. Students will be notified of changes, if any, in a timely manner.

Original Effort

The work submitted for this course must be original work prepared by the student enrolled in this course.

Course Alignment with Industry Standards

This course follows the guidelines set forth by the American Welding Society **SENSE** program, along with the **WELD-ED** National Core Curriculum.

Digital Protocol

Cell phones must be placed on either *vibrate* or *silent* mode and are to be accessed in emergency cases only. The use of laptops or any other digital device is permitted in order to facilitate learning.

For online submissions, the electronic recording of the time on Blackboard will be considered the time of assignment submission. Take necessary steps to ensure that your assignments are submitted on “Blackboard” time. Back-up and/or additional copies of all assignments submitted is encouraged. **Computers/printers are available to OC students in the LRC (301-303); therefore, not having access to a computer due to technical issues (crash; corrupted files) will not be considered as an acceptable reason for not completing assignments.** If there is a loss of server connection with Odessa College due to maintenance, then an email will be sent to students with pertinent information and status reports. Assignments submitted electronically need to follow the file-type requirements provided by the instructor.

Attendance Policy

Students are expected to attend class regularly. Attendance will be recorded daily at the beginning of class and at class end. Excessive absences will be grounds for disciplinary action, and will be determined on a case-by-case basis. If you are more than 15 minutes late to class or leave class early without notifying the instructor, this will count as an absence. Students are permitted 2 absences before a loss of point(s). If the student has incurred 7 absences in the course, the instructor will recommend withdrawing from the course to avoid course failure.

AVID

This course has been identified as a course by Career, Technical, and Workforce Education as one in which teaching and learning strategies adopted by AVID will be implemented. As a student in the legal program, you will be expected to develop an understanding of the strategies, to model the strategies, to maintain fidelity of implementation, and to examine how these strategies may impact your effectiveness as a professional in your chosen area of occupation, either through coursework or practicum experience as outlined by the course instructor.

Grade Inquiry

It is the responsibility of the student to keep track of assignment submissions and grades. At any point, you are welcome to meet with the instructor to discuss your academic progress. Contact the instructor to schedule an appointment.

General Course Requirements

1. **Attend class and participate**
2. **Contribute and cooperate with civility.**
3. **Submit assignments on time. Late work will not be accepted. Medical and/or family circumstances that warrant an extension on assignments need to be presented to the instructor. Extensions will be allowed at the instructor's discretion.**

Incomplete Policy

An 'Incomplete' grade may be given only if:

1. The student has passed all completed work
2. If he/she has completed a minimum of 75% of the required coursework. A grade of an "I" will only be assigned when the conditions for completions have been discussed and agreed upon by the instructor and the student.
3. An Incomplete form is submitted

Course Schedule

Schedule (Tentative and Subject to Change)

Class	Instructional Approach	Topic	Assignment	Assignment Submission
1	Lecture <small>(* denotes a strategy adopted by AVID)</small>	Review Syllabus, Class Introduction, requirements, safety	Read handouts* Obtain equipment	---

2	Lecture/ Lab/ Exam*	Lab Safety Video and discussion, Oxy-fuel welding and cutting Safety Exam	Read handouts Obtain Equipment	
3	Lecture/ Lab	Proper use of oxy- fuel cutting equipment	Read Unit 1, 2 & 3	Equipment and supplies check list, counts as homework assignment
4	Lecture/ Lab	Unit 1, 2 & 3 Introduction to the GMAW Process and Equipment Overview Begin welding beads in all positions – Demo and Practice	Read Unit 4	Assigned Questions from Units covered
5	Lecture/Lab	Unit 4 - Introduction to GMAW Gases Weld Bead Plates in all positions	Review Notes*	Assigned Questions from Units covered
6	Lecture /Lab	GMAW Beads & Fillet Welds	Review Notes*	Assigned Questions from Units covered
7	Lecture /Lab	Unit 5 - GMAW Filler Materials Continue Fillet Welds in all positions	Review Notes*	Assigned Questions from Units covered
8	Lecture /Lab	Unit 6 – Weld Joints and Weld Types Intro to FCAW Process FCAW Demo and Practice	Review Notes*	Assigned Homework Questions from Units covered Due
9	Lab	FCAW Beads and Fillet Welds	Review Notes* Review Units	Assigned Questions from Units covered

			5,6 & 7	
10	Lecture /Lab/ Exam	Intro to GMAW Groove weld procedures GMAW 1G weld practice Exam on Chap 1 to 5 & FCAW	Review Notes* Read Unit 21	Assigned Questions from Units covered
11	Lecture /Lab	Unit 6 - Weld Joints and Types Practice 1G GMAW on ¼" plate	Correct exam	
12	Lecture /Lab	Practice 1G GMAW on ¼" plate	Review Notes*	Exam Corrections Due
13	Lecture /Lab	Unit 7 - Introduction to welding procedures and techniques for GMAW. Practice all Welds	Review Notes*	
14	Lab	Practice all Welds	Review Notes*	Assigned Questions from Units covered
15	Lecture /Lab	Lab Test on all Beads, Fillet and 1G Welds	Review Notes* Read Unit 24	
16	Lecture /Lab	Unit 8 – GMAW & FCAW procedures for Carbon Steels GMAW – FCAW 1G Practice Begin Project 3 Plan	Review Notes*	Assigned Questions from Units covered
17	Lecture /Lab	Unit 9 – Stainless Steel GMAW Procedures, Demo & Practice Continue GMAW – FCAW 1G Practice	Review Notes*	Assigned Questions from Units covered

18	Lab	S. S. Weld Practice Beads & Fillets GMAW – FCAW 1G Qualification Testing	Review Notes*	Assigned Questions from Units covered
19	Lecture /Lab	Unit 10 – Aluminum GMAW Procedures, Demo & Practice GMAW – FCAW 2G Practice	Review Notes*	Assigned Questions from Units covered
20	Lecture/Lab	Continue 2G Weld Practice	Review Notes*	
21	Lecture/Lab	Unit 11 - Introduction to weld inspection, defects, and corrective action. Practice 2G and 3G welds	Review Notes*	
22	Lab/Exam	2G Weld Testing Exam – Units 6 to 11	Review Notes*	
23	Lab	3G Weld Practice	Review Notes*	
24	Lab	Continue 3G Weld Practice	Review Notes*	
25	Lab	Begin 3G Qualification Testing	Review Notes*	Note books checked for Homework Grade*
26	Lab	3G Qualification Testing Begin 4G Weld Practice	Study for Final Exam	
27	Lab	Continue 4G Weld Practice	Study for Final Exam	
28	Lecture /Lab	4G Qualification Testing	Study for Final Exam	

29	Lecture /Lab	Final Review / Lab Clean-up	Study for Final Exam	
30	Final Exam	Final Comprehensive Written Exam		

General Education – Core Objectives (COs)

Description of Core Objectives (CO's)

Given the rapid evolution of necessary knowledge and skills and the need to take into account global, national, state, and local cultures, the core curriculum must ensure that students will develop the essential knowledge and skills they need to be successful in college, in a career, in their communities, and in life. Therefore, with the assistance of the Undergraduate Education Advisory Committee, the Coordinating Board has approved guidelines for a core curriculum for all undergraduate students in Texas.

Through the application and assessment of objectives within the institution's core curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world; develop principles of personal and social responsibility for living in a diverse world; and advance intellectual and practical skills that are essential for all learning. Appropriate Odessa College faculty periodically evaluates all of the courses listed in the descriptions on the following pages of this catalog and keys them to Odessa College's Institutional Core Objectives (COs), as defined by the Texas Higher Education Coordinating Board (THECB). (Source: *Odessa College Catalog of Courses 2012-2013, page 73*)

Odessa College's Core Objectives (COs):

1. *Critical Thinking Skills* - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. *Communication Skills* - to include effective development, interpretation and expression of ideas through written, oral and visual communication
3. *Empirical and Quantitative Skills* - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. *Teamwork* - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. *Personal Responsibility* - to include the ability to connect choices, actions and consequences to ethical decision-making

6. *Social Responsibility* - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Student Learning Outcomes (SLOs)

Student Learning Outcome(s)	Core Objectives (CO's)
Identify and use the proper welding process, procedure, supplies, etc. based on cost limitations	<i>Critical Thinking Skills</i> - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
Describe basic fabrication techniques as related to welding	<i>Communication Skills</i> - to include effective development, interpretation and expression of ideas through written, oral and visual communication
Solve basic welding problems using applied mathematical skills	<i>Empirical and Quantitative Skills</i> - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Perform practical projects with minimum supervision	<i>Teamwork</i> - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
Demonstrate job safety in the set up and operation of arc welding equipment	<i>Personal Responsibility</i> - to include the ability to connect choices, actions and consequences to ethical decision-making
	<i>Social Responsibility</i> - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional,

	national, and global communities
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Odessa College Policies

Tuition Discounts

The ***“First Course is Free”*** discount waives standard tuition and fees for the first 3 credit hours taken at Odessa College. The discount applies to high school graduates taking their first class at Odessa College as well as transfer students taking their first class at Odessa College.

The ***“Academic Progress Discount”*** provides a 10% tuition discount upon completion of 30 credit hours until reaching 45 credit hours. It provides a 20% discount upon completion of 45 credit hours until reaching 60 credit hours. Student must maintain a 2.0 GPA to remain eligible for the discount.

Academic Policies

Note that the OC Student Handbook states (page 32) that “[i]n cases of academic dishonesty, the instructor has the authority to impose appropriate scholastic penalties. Complaints or appeals of disciplinary sanctions may be filed in accordance with the college due process procedure. Copies of the college due process procedure are available in the office of The Director of Student Life (CC104).”

For more information on your rights and responsibilities as a student at Odessa College, please refer to the following: *The 411 of OC: Student Handbook 2012-2013; Student Rights & Responsibilities* <http://www.odessa.edu/dept/studenthandbook/handbook.pdf>

Scholastic Dishonesty

Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by board policies. Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism and collusion.

"Cheating on a test" shall include:

- Copying from another student's test paper
- Using test materials not authorized by the person administering the test.
- Collaborating with or seeking aid from another student during a test without permission from the test administrator.

- Knowingly using, buying, selling, stealing or soliciting, in whole or in part, the contents of an unadministered test.
- The unauthorized transporting or removal, in whole or in part, of the contents of the unadministered test.
- Substituting for another student, or permitting another student to substitute for one's self, to take a test.
- Bribing another person to obtain an unadministered test or information about an unadministered test.
- "Plagiarism" shall be defined as the appropriating, buying, receiving as a gift, or obtaining by any means another's work and the unacknowledged submission or incorporation of it in one's own written work.
- "Collusion" shall be defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. (Source: *Odessa College Student Handbook 2012-2013, page 29-30*)

Special Populations/Disability Services/Learning Assistance

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.

Odessa College affirms that it will provide access to programs, services and activities to qualified individuals with known disabilities as required by **Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990 (ADA)**, unless doing so poses an undue hardship or fundamentally alters the nature of the program or activity. Disabilities may include hearing, mobility or visual impairments as well as hidden disabilities such as chronic medical conditions (arthritis, cancer, diabetes, heart disease, kidney disorders, lupus, seizure disorders, etc.), learning disabilities or psychiatric or emotional disabilities. A student who comes to Odessa College with diagnosed disabilities which may interfere with learning may receive accommodations when the student requests them and submits proper documentation of the diagnosis. A Request for Accommodations form and guidelines for beginning the request process are available in the OC Help Center or on the Odessa College web site at <http://www.odessa.edu/dept/counseling/disabilities/index.htm>. The college strives to provide a complete and appropriate range of services for students with disabilities such as assistance with testing, registration, information on adaptive and assistive equipment, tutoring, assistance with access and accommodations for the classroom where appropriate. For information regarding services, students with disabilities should contact the Office of Disability Services in the OC Help Center located in Room 204 of the Student Union Building or call 432-335-6433. (Source: *Odessa College Catalog of Courses 2012-2013, page 52*)

Dropping a Course or Withdrawing from College

Students wishing to drop a non-developmental course may do so online using WebAdvisor, at the Wrangler Express, or Registrar’s Office. A student wishing to drop a developmental course or withdraw from college should obtain a drop or withdrawal form from the Wrangler Express or the Registrar’s Office. Students are encouraged to consult with instructors prior to dropping a class. Students may not completely withdraw from the college by use of the Web. Students must drop a class or withdraw from college before the official withdrawal date stated in the class schedule. Students who are part of the Armed Forces Reserves may withdraw with a full refund if the withdrawal is due to their being ordered into active duty. A copy of the student’s orders must be presented to the Registrar’s Office at the time of the withdrawal. For details, please contact the Office of the Registrar. **No longer attending class does not automatically constitute withdrawal from that class, nor does a student’s notification to an instructor that the student wishes to be dropped. Failure of a student to complete the drop/withdrawal process will result in a grade of “F.”** (Source: *Odessa College Catalog of Courses 2012-2013*, page 36)

Student Support Services and Technical Support

Blackboard Support

I can’t log into my Blackboard Course, who do I contact?

Contact the Student Success Center: 432-335-6673 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm. The SSC can provide you with your Blackboard login name. If you are not sure what your password is, they can reset your password.

I’m having a problem in my Blackboard Course, who do I contact?

For any problem that you have in your online course, always contact your Instructor first. Refer to the Instructor’s Contact Information area of the Syllabus for their preferred method of contact and the expected response time.

Additional Blackboard Help Resources:

Service	Assistance Provided	Available
Blackboard Help for Students	Website with a searchable list of topics on how to navigate and use Blackboard for online courses.	Online Click here.
Blackboard On Demand Learning Center for Students	This website provides an extensive list of short tutorial videos for student activities performed in Blackboard.	Online Click here.

Blackboard Collaborate: First Time Users	If you have never used Blackboard Collaborate before, this website provides a system requirements check, configuration instructions, and training and resources area.	Online Click here.
Blackboard Collaborate: Essentials for Participants	This website provides essential information for Participants of Collaborate sessions. Any Collaborate user, whether first-time or experienced, would benefit from reviewing the information here.	Online Click here.

Student E-mail Support

How do I set up, access, or update my Odessa College Student E-mail account?

Go to this website and follow the directions on the page: <http://www.odessa.edu/gmail/>.

I can't access my student email! I forgot my password!

Contact the Student Success Center: 432-335-6673 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm. They can provide you with assistance in accessing your student email (created by OC) and can also assist with resetting your student email password. Make sure to have your student ID number available!

Your Blackboard login name is associated with your OC created student email account. All Correspondence for this course will be submitted using your Odessa College student email address.

Support for Students with Disabilities

How do I contact the Office of Special Populations?

Main Number	432-335-6861
Campus Location	SUB 204N in the Student Union Building
Email	Becky Rivera-Weiss - brivera@odessa.edu
Website	To find out more about services provided by the Special Populations office, please visit: http://www.odessa.edu/dept/counseling/disabilities/index.htm

Learning Resources Center (LRC; Library)
How do I contact the Learning Resource Center?

Main Number	432-335-6640
FAQ Service	LibAnswers: http://libanswers.odessa.edu
Contact a Specific OC Librarian	Pat Quintero at 432/335-6350 or pquintero@odessa.edu Donna Clark at 432/335-6645 or dclark@odessa.edu Carolyn Petersen at 432/335-6641 or cpetersen@odessa.edu
LRC Services and Guidelines Website	https://www.odessa.edu/dept/library/services/index.htm

Equipment and Services Provided:

The Murry H. Fly Learning Resources Center (LRC) supports the college's curriculum resulting in a primary emphasis on each student's individual study and research needs. The faculty and staff work with the LRC's Technical Services and Public Services Departments in choosing materials to support all college programs. More than 59,000 books, 50,000 electronic books, 350 current periodicals, 6,700 media holdings, eight newspapers, and 60 databases are available to enhance the educational process.

Equipment/Services Available	Used For	Available
Books, videos, CDs	Research	On Campus and Online
Specialized databases not available online for free	Research	On Campus and Online
Magazines, newspapers, & scholarly journals	Research	On Campus and Online
Computers	Research & word processing	On Campus
Selected textbooks for short-term use	Course work	On Campus
Trained staff	Answer "where do I find?"	On Campus and Online

Tutorials	Tips for research strategies	On Campus and Online
Photocopiers, VHS/DVD players, FAX service	For course work	On Campus
Quiet study areas	For course work	On Campus

Student Success Center (SSC) / AVID Center

How do I contact the Student Success Center?

Appointments are preferred, but walk-ins will be served as soon as possible.

Main Number	432-335-6673
Campus Location	1st floor of the Library
Website with Additional Help and Information	http://www.odessa.edu/dept/ssc/
Live Online Assistance / Chat	Click Here <i>(If no one is currently available, please put your email and question(s) in the appropriate areas of the form and hit 'send.' Your question(s) will be addressed as soon as an SSC staff member becomes available.)</i>

Equipment and Services Provided:

The purpose of the Odessa College Student Success Center is to provide assistance to students in meeting their academic and career goals. The SSC strives to continually provide new and updated resources that will empower all Odessa College students to succeed at OC and beyond.

Equipment/Services Available	Used For	Available
Tutoring by CRLA & Avid trained tutors	Understanding course work and motivation	On Campus and Online Click here for more information.
Student Information Seminars (SIS)	Demo email, Blackboard and SSC resources	On Campus and Online Click here for more

		information.
Study Skills	Tools needed to succeed	On Campus and Online Click here for more information.
Basic Technology	To navigate classes, email, etc.	On Campus and Online
Plato Web	Practice for TEAS test and basic math, science, etc.	On Campus and Online Click here for more information.
Project T.I.E.	Practice for GED/COMPASS	On Campus and Online Click here for more information.
Student Orientation/Tour	Show individual students where their classes will be. SIS presentation	On Campus
M.O.R.E. Mentoring Program	Networking, tips to navigate college life successfully	On Campus Click here for more information.
Smart thinking	Online tutoring service. Connect with an e-structor and interact with a live tutor.	Online Click here for more information.

Veterans Support

How do I contact the office for Veteran's Outreach?

Main Number	432-335-6833
Campus Location	204M (Help Center) in the Student Union Building
Email	Gloria Rangel - grangel@odessa.edu

Website

To find out more about services provided by the Veteran's Outreach office, please visit: <http://www.odessa.edu/dept/counseling/veterans/index.htm>