

**Clarendon College**  
**WLDG 1206 Fundamentals of GTAW**

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**I. General Course Information**

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Fall 2024 / Spring 2025

Course Number: WLDG 1206

Course Title: Fundamentals of Gas Tungsten Arc Welding

Credit Hours: 2-8-4

Fundamentals of Gas Tungsten Arc Welding (GTAW). Includes setup and safe use of GTAW as well as instruction in flat position on joint design.

A series of basic intellectual competencies--reading, writing, speaking, listening, critical thinking, and computer literacy--are essential to the learning process in any discipline and thus should inform any core curriculum. Although students can be expected to come to college with some experience in exercising these competencies, they often need further instruction and practice to meet college standards and, later, to succeed in both their major field of academic study and their chosen career or profession. This course will further develop the following basic intellectual competencies:

**READING:** Reading at the college level means the ability to analyze and interpret a variety of printed materials--books, articles, and documents. A core curriculum should offer students the opportunity to master both general methods of analyzing printed materials and specific methods for analyzing the subject matter of individual disciplines.

**WRITING:** Competency in writing is the ability to produce clear, correct, and coherent prose adapted to purpose, occasion, and audience. Although correct grammar, spelling, and punctuation are each a sine qua non in any composition, they do not automatically ensure that the composition itself makes sense or that the writer has much of anything to say. Students need to be familiar with the writing process including how to discover a topic and how to develop and organize it, how to phrase it effectively for their audience. These abilities can be acquired only through practice and reflection.

**SPEAKING:** Competence in speaking is the ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience. Developing this competency includes acquiring poise and developing control of the language through experience in making presentations to small groups, to large groups, and through the media.

**LISTENING:** Listening at the college level means the ability to analyze and interpret various forms of spoken communication.

**CRITICAL THINKING:** Critical thinking embraces methods for applying both qualitative and quantitative skills analytically and creatively to subject matter in order to evaluate arguments and to construct alternative strategies. Problem solving is one of the applications of critical thinking, used to address an identified task.

**COMPUTER LITERACY:** Computer literacy at the college level means the ability to use computer-based technology in communicating, solving problems, and acquiring information. Core-educated students should have an understanding of the limits, problems, and possibilities associated with the use of technology, and should have the tools necessary to evaluate and learn new technologies as they become available.

## **II. Objectives/Terminal Objectives**

All Clarendon College courses work together to meet the following objectives:

1. Establish broad and multiple perspectives on the individual in relationship to the larger society and world in which he or she lives, and to understand the responsibilities of living in a culturally and ethnically diverse world;
2. Stimulate a capacity to discuss and reflect upon individual, political, economic, and social aspects of life in order to understand ways in which to be a responsible member of society;
3. Recognize the importance of maintaining health and wellness;
4. Develop a capacity to use knowledge of how technology and science affect their lives;
5. Develop personal values for ethical behavior;
6. Develop the ability to make aesthetic judgments;
7. Use logical reasoning in problem solving; and
8. Integrate knowledge and understand the interrelationships of scholarly disciplines.

In addition, the following objectives that are specific to Introduction to Layout Fabrication will be met:

### **End-of-Course Outcomes**

1. Safe setup and operation of GTAW equipment.
2. Welding using various joint configurations and positions.
3. Welding using ferrous and non ferrous materials.

## **III. Textbook and Other Required Materials**

Text to be announced

## **IV. Classroom Policy and Instructor Expectations**

Students are expected to conduct themselves in a manner, which promotes a safe learning environment for all students. Students should participate in classroom

and lab activities / discussions, complete assignments on time and be prompt to class.

Cell phones are expected to be placed on silent ring. Students receiving a call are expected to leave the class to answer incoming calls in the hallway. NO TEXTING is allowed during class sessions. If a student's cell phone use becomes a problem they will be asked to leave the class. If the cell phone use continues to be a problem the student will be removed from the class roster.

**V. Additional/Supplemental References**

Computer CD (hand out Material)

**VI. Methods of Evaluation**

Attendance = 70%

Exams = 30%

**Grade Scale:**

90 - 100 = A

80 - 89 = B

70 - 79 = C

Below 70 = F

**VII. Attendance Requirements**

Attendance at all class sessions is expected of all students. This is a significant part of instilling a good work ethic for future employers. For this reason if a student must be absent for any reason he/she will be required to notify a welding instructor(s) as soon as practical for each absence and its reason. If a student is absent from class for four unexcused absences they will be placed on the "Attendance Probation List" for the Welding Program. After six unexcused absences the student will be administratively withdrawn from the entire welding program.

| Attendance Percentage |   |  | Grade |
|-----------------------|---|--|-------|
| 90 – 100              | = |  | 100   |
| 80 – 90               | = |  | 90    |
| 70– 80                | = |  | 80    |
| 60 – 70               | = |  | 70    |
| 0 – 60                | = |  | 50    |

## **VIII. Scans/Or Core Competencies That Will Be Addressed in the Class**

### **Resources:**

Allocates Material & Facility Resources

### **Information:**

Acquires & Evaluates Information

Organizes & Maintains Information

### **Interpersonal:**

Participate as Team Member,

Serve Clients/Customers

Negotiation Skills

### **Systems:**

Understands Systems

### **Technology:**

Select Technology

Applies Technology

### **Basic Skills:**

Reading

Arithmetic

Mathematics

### **Thinking Skills:**

Creative Thinking

Decision Making

Problem Solving

Reasoning

### **Personal Qualities:**

Responsibility

Self-Management

## **IX. Next Recommended Course in Sequence—N/A**

## **X. Correlation to Stated Mission Goals of Clarendon College**

- A. Provide general college academic course for students who plan to enter senior colleges and universities with junior standing.
- B. Provide a classroom setting that is conducive to learning.
- C. Provide, assist, and promote the use of learning resources.
- D. Participate in and contribute to the democratic society in which we live.
- E. Acquire skills, facts, values, and attitudes necessary to function and contribute to our society.

## **XI. Grievance Policy**

If you have a dispute concerning your grade or policies in this class, it is your responsibility to FIRST contact the instructor, either by e-mail or in

person, to discuss the matter. Should things remain unresolved after this initial contact, please follow the procedures described in the Clarendon College Catalogue. In the vast majority of cases, the matter can be resolved at the instructor/student level, and learning to communicate your concerns in a civilized manner is part of the college experience.

## **XII. Instructor's Contact Information and Office Hours**

My office is located at Pampa High School in the CTE Building. I will be available during posted School hours, before and after class, or contact me by phone 806-669-4800, ext 1159. My e-mail address is [rex.childress@pampaisd.net](mailto:rex.childress@pampaisd.net)

**Special Accommodations:** Please see the Instructor if you have a disability that requires special accommodations.

## **Student Rights and Responsibilities**

Student Rights and Responsibilities are listed on the College website at:

<http://www.clarendoncollege.edu/Resources/Student%20Services/StudentRightsResponsibilities.pdf>

The role of Clarendon College is to encourage individuals of all ages to develop their skills and talents based on their abilities and interests, so that collectively they may contribute to the growth and development of this democracy. College policies, procedures, and regulations are formulated to promote an appropriate teaching and learning environment where each student has the freedom to learn and where the constitutional rights of others are protected.

The concept of rights and freedom, no matter how basic or widely accepted, carries with it corresponding responsibilities. Students, as well as other members of the college community, enjoy the same constitutional and civil rights guaranteed all citizens; at the same time, they are subject to the laws of the nation, the State of Texas, and the local community. All members of the college community have a strong responsibility to protect and maintain an academic climate in which the freedom to learn can be enjoyed by all. To this end, certain basic regulations and policies have been developed to govern the behavior of students as members of the college community.

Violations of student conduct regulations will be handled through the Office of the Vice President of Student Services. Violations of federal, state, and/or local laws make a student subject to civil or criminal action in addition to disciplinary action by the College. Each student is responsible for knowing the policies and regulations of the College.

### **Freedom of Expression**

The rights of free speech and peaceable assembly are fundamental to the democratic process. The College supports the rights of students of the college community to express their views and opinions on actions or ideas, to associate freely with others, and to assemble peacefully.

Whether expressing themselves as individuals or in organized groups, members of the college community are expected to conduct themselves responsibly, according to law, and to respect the basic educational goals of the College. Accordingly, the College insists that free expression not violate the rights of others. Disruption of the educational process and functions of the College, or violation of law, would constitute such a violation.

Students wishing to assemble must complete an official request with the Vice-President of Student Services. The institution reserves the right to determine the time and location of such assemblies in order to ensure that the educational process is not disrupted. The use of amplified equipment is prohibited in student assembly and speech. The institution will not tolerate hate speech, defined as "...the lewd and obscene, the profane, the libelous, and the insulting or 'fighting' words – those which by their very utterance inflict injury or tend to incite and immediate breach of the peace." (Chaplinsky vs State of New Hampshire, 315 U.S. 568, 1942)

### **Freedom of Access**

Within the limits of its resources, Clarendon College shall be open to all applicants who are qualified according to current admission requirements. Clarendon College does not discriminate on the basis of race, creed, color, national origin, mental or physical disabilities, age, or sex in any of its policies, practices, or procedures. This includes, but is not limited to, admissions, employment, financial aid, and educational services, programs, and activities.

### **Freedom of Association**

Students are free to associate to promote their common interests. They have the right to seek, through official procedures, and establish organizations of their choosing so long as such are not in conflict with the educational purposes of the College. Students have the right to affiliate with officially recognized campus organizations of their choice, within the requirements of those organizations relative to membership.

### **Academic Rights of Students**

The College has the responsibility of providing a program of quality education in keeping with its financial resources; students have protection through campus-designed procedures against prejudiced or