



**Course Syllabus**

**Introduction to Gas Metal Arc Welding (GMAW)**

**WLDG 1430**

**Course Description: Principles of gas metal arc welding, setup and use of Gas Metal Arc Welding (GMAW) equipment, and safe use of tools/equipment. Instruction in various joint designs.**

**Semester Hours Credit: 4**

**Lecture/Lab Hours: 2/4 (2 lecture hours, 4 lab hours)**

**Prerequisite: None**

**Textbook(s): Gas Metal Arc Welding Handbook(fifth Edition) William H. Minnic ISBN: 9781590708668**

**Course Outcomes:**

Upon successful completion of this course the student will:

1. Describe welding positions with various weld joint designs on plate
2. Describe the effects of welding parameters in GMAW
3. Apply safety rules
4. Trouble shoot equipment
5. Perform visual inspection
6. Weld various types of structural material
7. Diagnose welding problems

**Evaluation Methods:**

- a. Attendance
- b. Lab tests and lab performance
- c. Visual test
- d. Destructive method using a guided bend tester
- e. Written exams

**Student Learning Outcomes:**

- **Personal Responsibility :** Students will utilize personal responsibility skills to work describe welding positions, safety rules, troubleshoot, weld various types of material. Assessment for this SLO will be conducted with students working on Assignment chapter 6 with a visual 2f test (Fillet weld horizontal). The target for this SLO, 90% of the class will Weld 2F fillet weld and learn to describe the effects of welding and diagnose problems around the welding shop with a 70% or better.



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See at: [GL \(Legal\)](#)

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For more information, contact: in Alice at [sdalice@coastalbend.edu](mailto:sdalice@coastalbend.edu); Beeville at [sdbeeville@coastalbend.edu](mailto:sdbeeville@coastalbend.edu); Kingsville at [sdkingsville@coastalbend.edu](mailto:sdkingsville@coastalbend.edu); and Pleasanton at [sdpleasanton@coastalbend.edu](mailto:sdpleasanton@coastalbend.edu).

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See at: [FLB \(Local\)](#) and [FM \(Local\)](#).

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