



**Course Syllabus**

**Introduction to Welding Metallurgy  
WDLG 1437**

**Course Description:** A study of ferrous and nonferrous metals from the ore to the finished product. Emphasis on metal alloys, heat treating, hard surfacing, welding techniques, forging, foundry processes, and mechanical properties of metal including hardness, machinability, and ductility.

**Semester Hours Credit:** 4

**Lecture/Lab Hours:** This class meets for (2) lecture and (6) lab hours per week

**Prerequisite:** Introductory Level

**Textbook(s):** Modern Welding, Althouse, Turnquist, and Bowditch

**Student Learning Outcomes:** Describe technical terms used in the various phases of metallurgy, from early history to classification of steel; discuss ferrous and nonferrous metals and how they are processed and used in industry; and describe mechanical and physical properties, surface treatments, and heat treatment of metals.

**Evaluation Methods:** Attendance  
  
Lab tests and lab performance  
  
Written exams



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

**Special Needs Services:** Students with special needs, including physical and learning disabilities, who wish to request accommodations in this course should contact the Student Development Office as soon as possible to make arrangements; this should occur no later than the second week of class or as soon as the student has the documentation on the disability and requested accommodation per a certified medical or psychological professional. In accordance with federal law, a student requesting accommodations must provide documentation of disability to the Student Development Advisor.

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 \(Local\)](#).

See the [Student Handbook](#) for further explanation of Scholastic Dishonesty.

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**NOTE:** The College website ([www.coastalbend.edu](http://www.coastalbend.edu)) serves as the main source with the most current version of the Coastal Bend College Board Policies and the Coastal Bend College Catalog.