**COLLIN COLLEGE**

**COURSE SYLLABUS**

Course Information

**Course Number:** WLDG 2413

**Course Title:** Intermediate Welding Using Multiple Processes

**Course Description:** Instruction using layout tools and blueprint reading with demonstration and guided practices with some of the following welding processes: oxy-fuel gas cutting and welding, shield metal arc welding (SMAW), gas metal arc welding (GMAW), flux-cored arc welding (FCAW), gas tungsten arc welding (GTAW). Lab required.

*Note: Welding classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds repeatedly), reaching, bending, and working around open flames and intense heat for extended periods of time.*

**Course Credit Hours:** 4

 Lecture Hours: 2

 Lab Hours: 5

**Prerequisites:** WLDG 2443, WLDG 2453 and WLDG 2450 or WLDG 2451

**Student Learning Outcomes:**

* **State-mandated Outcomes:** Upon successful completion of this course, students will:
1. Identify proper safety equipment and tools.
2. Select the proper welding process for a given application.
3. Demonstrate skills training using more than one approved welding process.
4. Analyze situations and make decisions concerning safety and electrode selections.

**Withdrawal Policy:** See the current *Collin Registration Guide* for last day to withdraw.

**Collin College Academic Policies:** See the current *Collin Student Handbook*

**Americans with Disabilities Act Statement:** Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.