**COLLIN COLLEGE**

**COURSE SYLLABUS**

Course Information

**Course Number:** WLDG 1428

**Course Title:** Introduction to Shielded Metal Arc Welding (SMAW)

**Course Description:** An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, and various joint designs. Additionally, instruction provided in SMAW fillet welds in various positions. 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

**Prerequisite:** Consent of Discipline Lead

**Student Learning Outcomes:**

* **State-mandated Outcomes:** Upon successful completion of this course, students will:

1. Select electrodes and amperage settings for various thicknesses of materials and welding positions.
2. Define principles of arc welding.
3. Explain electrode classifications.
4. Perform SMAW operations utilizing various positions electrodes and joint designs.

**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.