



Gas Tungsten Arc Welding / WELD 1110  
COURSE SYLLABUS  
Summer Semester 2016

Semester: Summer 2016  
Course Title: Gas Tungsten Arc Welding  
Course Number: WELD 1110  
Credit Hours/ Minutes: 4 / 5000  
Class Location: Room #411  
Class Meets: Tues., Thurs. 5-9:40 p.m.  
CRN: 60062

Instructor: Mr. Antonio Kelley  
Email Address: akelley@southeasterntech.edu  
Day Instructor: Mr. Michael Crumpler  
Office Location: Room 413 Main Building  
Office Hours of Day Instructor: Tues., Thurs. 1-2:30 p.m.  
Email Address: mcrumpler@southeasterntech.edu  
Phone: 912-538-7395  
Fax Number: 912-538-3156

**REQUIRED TEXT:** None

**REQUIRED SUPPLIES:** Each student should have the following: Long Sleeve Shirt or welding jacket, pair of work boots, welding helmet, gloves, safety glasses, 4 ½" grinder, vice grips, wire brush and Klines or heavy duty wire cutters. You will not be permitted to borrow from the Instructor or your fellow classmates.

**PRE-REQUISITES:** All Required, WELD 1000 Introduction to Welding Technology

**CO-REQUISITES:** None

**COURSE DESCRIPTION:** Provides knowledge of theory, safety practices, inert gas, equipment, and techniques for successful gas tungsten arc welding. Qualification tests, all positions, are used in the evaluating of student progress toward making industrial standard welds. Topics include: GTAW safety and health practices, shielding gases, metal cleaning procedures, GTAW machines and set up, selection of filler rods, GTAW Weld positions, and production of GTAW beads, bead patterns, and joints.

**MAJOR COURSE COMPETENCIES:**

1. GTAW Safety and Health Practices
2. Shielding Gases
3. Metal Cleaning Procedures
4. GTAW Machines and Set Up
5. Selection of Filler Rods
6. GTAW Weld Positions
7. Production of GTAW Beads, Bead Patterns, and Joints

**COURSE OUTLINE:** GTAW Safety and Health practices, Shielding Gases, Metal Cleaning procedures, GTAW machines and set up, Selection of Filler Rods, GTAW Weld positions, and Production of GTAW Beads, Bead Patterns, and Joints.

**GENERAL EDUCATION CORE COMPETENCIES:** STC has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze and interpret information.
4. The ability to effectively utilize basic computer skills.

**STUDENT REQUIREMENTS:** Tests and assignments must be completed on the specified date. Students are also responsible for policies and procedures in the STC E-Catalog.

**ATTENDANCE GUIDELINES:** Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of F and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last

date of attendance in the event a student withdraws, stops attending, or receives an F in a course.

**SPECIAL NEEDS:** *Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Jan Brantley, Room 1208 Swainsboro Campus, 478-289-2274, or Helen Thomas, Room 108 Vidalia Campus, 912-538-3126, to coordinate reasonable accommodations.*

**SPECIFIC ABSENCES:** Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor. **For each unexcused absence, one grade point will be deducted from your overall GPA.**

**PREGNANCY:** Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please advise me and make appropriate arrangements with the Special Needs Office. Swainsboro Campus: Jan Brantley, Room 1208, (478) 289-2274 -- Vidalia Campus: Helen Thomas, Room 108, (912) 538-3126.

**WITHDRAWAL PROCEDURE:** Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of 'F' being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. All grades, including grades of 'W', will count in attempted hour calculations for the purpose of Financial Aid.

**Remember** - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

**MAKEUP GUIDELINES:** Makeup test will be given on the following class meeting date with an acceptable excuse approved by the instructor; any test not made up will result in the student receiving a zero.

Any assignment(s) not completed will result in a zero. If you fall behind on any assignments or cannot produce a visually acceptable weldment, a due date will be given. If on the given due date, you are still unable to produce a visually acceptable weldment, you will receive a zero for that assignment.

**ACADEMIC DISHONESTY POLICY:** The STC Academic Dishonesty Policy states *All forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline.* The policy can also be found in the *STC Catalog and Student Handbook.*

#### **Procedure for Academic Misconduct**

The procedure for dealing with academic misconduct and dishonesty is as follows:

##### **--First Offense--**

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

##### **--Second Offense--**

Student is given a grade of "WF" for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

##### **--Third Offense--**

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

**STATEMENT OF NON-DISCRIMINATION:** Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, disabled veteran, veteran of Vietnam Era or citizenship status, (except in those special

circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

**GRIEVANCE PROCEDURES:** Grievance procedures can be found in the Catalog and Handbook located on STC's website.

**ACCESS TO TECHNOLOGY:** Students can now access Angel, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the STC website at [www.southeasterntech.edu](http://www.southeasterntech.edu).

**\*Instructor reserves the right to change the syllabus and/or lesson plan as necessary.\***

**GRADING POLICY**

Welding Assignments 100%

**GRADING SCALE**

A: 90-100  
B: 80-89  
C: 70-79  
D: 60-69  
F: 0-59

**TCSG GUARANTEE/WARRANTY STATEMENT:**

*The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.*

**WELD 1110—Gas Tungsten Arc Welding  
Summer Semester 2016 Lesson Schedule**

Date	Chapter / Lesson	Content	Assignments Tests	*Competency Area
May 19	GTAW Set Up and Electrode Selection	First day of class/Class Introduction—Syllabi, Outline, Rules, Regulations Coverage, Library Resources and tour. GTAW Set Up and Electrode Selection	Refreshing of proper GTAW Set Up and Electrode Selection by instructor. Demonstration given of GTAW of Padded Plate; students practicing GTAW of Padded plate.	1,2,3,4,A,B,D
24	Surfacing, Padded Plate	Surfacing, Padded Plate	Students practicing welding a padded plate.	1,2,3,4,A,C
26	Surfacing, Padded Plate	Surfacing, Padded Plate	Students practicing welding a padded plate.	1,2,3,4,A,C
31	Tee Joints, Multi-Pass Fillet Welds	Tee Joints, Multi-Pass Fillet Welds	Demonstration given by instructor on how to fit up and weld a Tee Joint using multi-pass fillet welds, students practicing making multi-pass fillet welds on Tee Joints <u>in all positions</u> .	1,2,3,4,A,C
June 2	Tee Joints, Multi-Pass Fillet Welds	Tee Joints, Multi-Pass Fillet Welds	Students practicing making multi-pass fillet welds on Tee Joints.	1,2,3,4,A,C
7	Tee Joints, Multi-Pass Fillet Welds	Tee Joints, Multi-Pass Fillet Welds	Students practicing making multi-pass fillet welds on Tee Joints.	1,2,3,4,A,C
9	Tee Joints, Multi-Pass Fillet Welds	Tee Joints, Multi-Pass Fillet Welds	Students practicing making multi-pass fillet welds on Tee Joints.	1,2,3,4,A,C
14	Tee Joints, Multi-Pass Fillet Welds	Tee Joints, Multi-Pass Fillet Welds	Students practicing making multi-pass fillet welds on Tee Joints.	1,2,3,4,A,C

16	Tee Joints, Multi-Pass Fillet Welds	Tee Joints, Multi-Pass Fillet Welds	Students practicing making multi-pass fillet welds on Tee Joints.	1,2,3,4,A,C
21	Tee Joints, Multi-Pass Fillet Welds	Tee Joints, Multi-Pass Fillet Welds	Students practicing making multi-pass fillet welds on Tee Joints.	1,2,3,4,A,C
23	Tee Joints, Multi-Pass Fillet Welds	Tee Joints, Multi-Pass Fillet Welds	Students practicing making multi-pass fillet welds on Tee Joints.	1,2,3,4,A,C
28	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Demonstration given by instructor on how to fit up and weld a Corner Joint, Lap Joint, Edge Joint and a Butt Joint. Students practicing.	1,2,3,4,A,C
30	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Students practicing welding: corner, lap, edge and butt joints.	1,2,3,4,A,C
July 5	HOLIDAY	HOLIDAY	NO CLASS	NO CLASS
7	HOLIDAY	HOLIDAY	NO CLASS	NO CLASS
12	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Students practicing welding: corner, lap, edge and butt joints.	1,2,3,4,A,C
14	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Students practicing welding: corner, lap, edge and butt joints.	1,2,3,4,A,C
19	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Students practicing welding: corner, lap, edge and butt joints.	1,2,3,4,A,C
21	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Students practicing welding: corner, lap, edge and butt joints.	1,2,3,4,A,C
26	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Corner Joint, Lap Joint, Edge Joint, Butt Joint	Students practicing welding: corner, lap, edge and butt joints.	1,2,3,4,A,C

**Competency Areas:**

1. GTAW Safety Practices and Health Practices
2. Selection and Applications of Electrodes for GTAW
3. GTAW Joints
4. GTAW to Specification

**General Education Competencies:**

- a. The ability to utilize standard written English.
- b. The ability to solve practical mathematical problems.
- c. The ability to read, analyze, and interpret information.