



## **WELD 1153 Flux Cored Arc Welding**

### **COURSE SYLLABUS**

### **Summer Semester 2018**

#### **COURSE INFORMATION**

Credit Hours/Minutes: 4/4500  
Class Location: Room 416  
Class Meets: T, R 8:00-12:35 p.m.  
CRN: 60200

#### **INSTRUCTOR CONTACT INFORMATION**

Instructor Name: Mr. Michael Crumpler  
Office Location: Room 417  
Office Hours: By appointment only  
Email Address: mcrumpler@southeasterntech.edu  
Phone: 912-538-3257  
Fax Number: 912-538-3156  
Tutoring Hours (if applicable): T, R 1:00 – 2:30 p.m.

#### **REQUIRED TEXT**

None

#### **REQUIRED SUPPLIES & SOFTWARE**

Each student should have the following: Long Sleeve Shirt or welding jacket, pair of work boots, welding helmet, gloves, safety glasses, vice grips, 4 ½" grinder, wire brush, chipping hammer and wire cutters. Please do not burn off wire on the tables, buy a pair of wire cutters. You will not be permitted to borrow from the Instructor or your fellow classmates.

#### **COURSE DESCRIPTION**

WELD 1153 – Flux Cored Arc Welding provides knowledge of theory, safety practices, equipment and techniques required for successful Flux Cored Arc Welding. Qualification tests, all positions, are used in the evaluation of student progress toward making industrial standard welds. Topics include: FCAW Safety and Health Practices; FCAW Theory; Machines, and Set Up: Transfer Modes; Wire Selection; Shielded Gas Selection; and FCAW Joints in All Positions.

#### **MAJOR COURSE COMPETENCIES**

1. FCAW Safety and Health Practices
2. FCAW Theory
3. Machine Set Up and Operation
4. Shielded Gas Selection
5. FCAW Joints in All Positions

## **PREREQUISITE(S)**

All required

## **COURSE OUTLINE**

FCAW Safety and Health Practices; FCAW Theory; Machines, and Set Up: Transfer Modes; Wire Selection; Shielded Gas Selection; and FCAW Joints in All Positions.

## **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.

## **STUDENT REQUIREMENTS**

All assignments must be completed by 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 Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), 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.

## **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 Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu).

## 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 (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC...)

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.

## 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:

### 1. 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.

### 2. 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.

### 3. 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 third 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

The Technical College System of Georgia and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member 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).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

ADA/Section 504 - Equity- Title IX (Students) - OCR Compliance Officer	Title VI - Title IX (Employees) - EEOC Officer
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 108 Phone: 912-538-3126 <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a>	Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3147 <a href="mailto:bwilcox@southeasterntech.edu">bwilcox@southeasterntech.edu</a>

## GRIEVANCE PROCEDURES

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

## ACCESS TO TECHNOLOGY

Students can now access Blackboard, 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](#).

## 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.*

## GRADING POLICY

Assessment/Assignment	Percentage
Hands On Assignments	100%

## GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69

Letter Grade	Range
F	0-59

## WELD 1153 Flux Cored Arc Welding Summer Semester 2022 Lesson Plan

<b>Date</b>	<b>Chapter</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
May 17	FCAW Set Up and Electrode Selection	First day of class/Class Introduction—Syllabi, Outline, Rules, Regulations Coverage, Library Resources and tour. FCAW Set Up and Electrode Selection	Refreshing of proper FCAW Set Up and Electrode Selection by instructor. Demonstration given of FCAW of Padded Plate; students practicing FCAW of Padded plate.	1,2,3,4,5,6 A,B,D
19	Welding Symbols	Welding Symbols used for Surfacing	Instructor demonstrates practicing padded plate.	1,2,3,4,5,6 A,B,D
24	Padded Plate	Padded Plate	Students practicing padded plate.	1,2,3,4,5,6 A,B,D
26	Padded Plate	Padded Plate	Students practicing padded plate.	1,2,3,4,5,6 A,B,D
31	Fillet Welds	Fillet Welds	Instructor demonstrates welding 3/8 and 1/2 fillet welds.	1,2,3,4,5,6 A,B,D
June 2	Fillet Welds	Fillet Welds	Students practicing welding fillet welds.	1,2,3,4,5,6 A,B,D
7	Corner Joints	Corner Joints	Instructor demonstrates welding a corner joint.	1,2,3,4,5,6 A,B,D
9	Corner Joints	Corner Joints	Students practicing welding a corner joint.	1,2,3,4,5,6 A,B,D
14	Lap Joints	Lap Joints	Instructor demonstrates welding a lap joint.	1,2,3,4,5,6 A,B,D
16	Lap Joints	Lap Joints	Students practicing welding lap joints.	1,2,3,4,5,6 A,B,D
21	Butt Joints	Butt Joints	Instructor demonstrates welding a butt joint.	1,2,3,4,5,6 A,B,D
23	Butt Joints	Butt Joints	Students practicing welding butt joints.	1,2,3,4,5,6 A,B,D
28	Butt Joints	Butt Joints	Students practicing welding butt joints.	1,2,3,4,5,6 A,B,D
30	Weld All Around	Weld All Around	Instructor demonstrates a weld all around.	1,2,3,4,5,6 A,B,D
July 5	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
7	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
12	Weld All Around	Weld All Around	Students practicing weld all around.	1,2,3,4,5,6 A,B,D
14	3-G Vertical Certification Test	3-G Vertical Certification Test	Students practicing 3-G Vertical Certification Test.	1,2,3,4,5,6 A,B,D
19	3-G Vertical Certification Test	3-G Vertical Certification Test	Students practicing 3-G Vertical Certification Test.	1,2,3,4,5,6 A,B,D
21	3-G Vertical Certification Test	3-G Vertical Certification Test	Students practicing 3-G Vertical Certification Test.	1,2,3,4,5,6 A,B,D
26	3-G Vertical Certification Test	3-G Vertical Certification Test	Students practicing 3-G Vertical Certification Test.	1,2,3,4,5,6 A,B,D

Competency Areas:

1. FCAW Safety Practices and Health Practices
2. FCAW Theory, Machines and Set Up
3. Transfer Modes
4. Wire Selection
5. Shielded Gas Selection
6. FCAW Joints in All Positions

General Core Educational 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.