



**WELD 1153 Flux Cored Arc Welding
COURSE SYLLABUS
Summer Semester 2018**

COURSE INFORMATION

Credit Hours/Minutes: 4/4500
Vidalia Campus/Class Location: Room 411
Class Meets: Monday and Wednesday from 5:15 – 9:25 p.m.
Course Reference Number (CRN): 60056

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Mr. Michael Crumpler
Email Address: [Michael Crumpler mcrumpler@southeasterntech.edu](mailto:Michael.Crumpler@southeasterntech.edu)
Vidalia Campus/Office Location: Room 417
Office Hours: Tuesday and Thursday 7:00 – 2:30 p.m.
Phone: 912-538-3257
Fax Number: 912-538-3156
Tutoring Hours (if applicable): See instructor to schedule an appointment

SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Handbook](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php) (<http://www.southeasterntech.edu/student-affairs/catalog-handbook.php>).

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

Southeastern Technical College 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

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

TRADITIONAL 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 \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 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.

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 \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 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" (Withdrawn) 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 speak with a representative of the Financial Aid Office to determine any financial penalties that may be accessed 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 Southeastern Technical College Academic Dishonesty Policy states that 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 Southeastern Technical College Catalog and 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" (Withdrawn Failing) 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:

American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer	Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 st Street, Vidalia Office 108 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie Jonas ljonas@southeasterntech.edu

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College'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 [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

TECHNICAL COLLEGE SYSTEM OF GEORGIA (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
F	0-59

WELD 1153 Flux Cored Arc Welding Summer Semester 2018 Lesson Plan

Jun-June Jul-July

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
May 16	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, A,B,C
21	Welding Symbols	Welding Symbols used for Surfacing	Instructor demonstrates practicing padded plate.	1,2,3,4,5, A,B,C
23	Padded Plate	Padded Plate	Students practicing padded plate.	1,2,3,4,5, A,B,C
30	Padded Plate	Padded Plate	Students practicing padded plate.	1,2,3,4,5, A,B,C
Jun 4	Fillet Welds	Fillet Welds	Instructor demonstrates welding 3/8 and 1/2 fillet welds.	1,2,3,4,5, A,B,C
6	Fillet Welds	Fillet Welds	Students practicing welding fillet welds.	1,2,3,4,5, A,B,C
11	Corner Joints	Corner Joints	Instructor demonstrates welding a corner joint.	1,2,3,4,5, A,B,C
13	Corner Joints	Corner Joints	Students practicing welding a corner joint.	1,2,3,4,5, A,B,C
18	Lap Joints	Lap Joints	Instructor demonstrates welding a lap joint.	1,2,3,4,5, A,B,C
20	Lap Joints	Lap Joints	Students practicing welding lap joints.	1,2,3,4,5, A,B,C
25	Butt Joints	Butt Joints	Instructor demonstrates welding a butt joint.	1,2,3,4,5, A,B,C
27	Butt Joints	Butt Joints	Students practicing welding butt joints.	1,2,3,4,5, A,B,C
Jul 9	Butt Joints	Butt Joints	Students practicing welding butt joints.	1,2,3,4,5, A,B,C
11	Weld All Around	Weld All Around	Instructor demonstrates a weld all around.	1,2,3,4,5, A,B,C
16	Weld All Around	Weld All Around	Students practicing weld all around.	1,2,3,4,5, A,B,C
18	3-G Vertical Certification Test	3-G Vertical Certification Test	Students practicing 3-G Vertical Certification Test.	1,2,3,4,5, A,B,C

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
23	3-G Vertical Certification Test	3-G Vertical Certification Test	Students practicing 3-G Vertical Certification Test.	1,2,3,4,5, A,B,C

COMPETENCY AREAS: (WILL VARY FOR EACH COURSE/TAKEN FROM STATE STANDARDS)

1. FCAW Safety Practices and Health Practices
2. FCAW Theory
3. Machines and Set Up
4. Shielded Gas Selection
5. 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.