



**TENTATIVE—SUBJECT TO CHANGE**

**WELD 1153 Gas Metal Arc Welding  
HYBRID COURSE SYLLABUS  
Spring Semester 2022 Term B (202214)**

**COURSE INFORMATION**

Credit Hours/Minutes: 4/4500  
Class Location: Metter High School  
Class Meets: Monday – Thursday 12:10 PM – 1:35 PM  
Percentages: 40% Hybrid / 60% F2F  
Course Reference Number (CRN): 40248  
Preferred Method of Contact: Email

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: Mr. Jason McDonald  
Office Location: EDC/Room 105  
Office Hours: By Appointment Only  
Email Address: [Jason.McDonald@southeasterntech.edu](mailto:Jason.McDonald@southeasterntech.edu)  
Phone: 912-538-3180  
Fax Number: 912-538-3156  
Tutoring Hours: By Appointment Only

**This course is taught in a hybrid format. Hybrid classes require students to complete a portion of the required contact hours traditionally by attending classes on campus while completing the remaining portion online at the student's convenience with respect to the instructor's requirements.**

**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 \(https://catalog.southeasterntech.edu/\)](https://catalog.southeasterntech.edu/).

**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.

**Students should not share login credentials with others and should change passwords periodically to maintain security.**

## **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 set up and operation, 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**

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

## **COVID-19 MASK REQUIREMENT**

Regardless of vaccination status, students are highly encouraged to wear masks or face coverings while in a classroom or lab at Southeastern Technical College. Masking may be implemented in some program areas (i.e. Health Sciences and Cosmetology) where students, faculty, and clients are in close proximity and social distancing cannot be maintained. This measure is being implemented to reduce COVID-19 related health risks for everyone engaged in the educational process. Masks or face coverings must be worn over the nose and mouth, in accordance with the Centers for Disease Control and Prevention (CDC).

## **COVID-19 SIGNS AND SYMPTOMS**

We encourage individuals to monitor for the signs and symptoms of COVID-19 prior to coming on campus.

If you have experienced the symptoms listed below or have a body temperature 100.4°F or higher, we encourage you to self-quarantine at home and contact a primary care physician's office, local urgent care facility, or health department for further direction. Please notify your instructor(s) by email and do not come on campus for any reason.

<b>COVID-19 Key Symptoms</b>
Fever or felt feverish
Chills
Shortness of breath or difficulty breathing (not attributed to any other health condition)
Fatigue
Muscle or body aches
Headache
New loss of taste or smell
Sore throat (not attributed to any other health condition)
Congestion or runny nose (not attributed to any other health condition)
Nausea or vomiting
Diarrhea
<b>In the past 14 days, if you:</b>
Have had close contact with or are caring for an individual diagnosed with COVID-19 at home (not in healthcare setting), please do not come on campus and contact your instructor (s).

### **COVID-19 SELF-REPORTING REQUIREMENT**

Students, regardless of vaccination status, who test positive for COVID-19 or who have been exposed to a COVID-19 positive person, are required to self-report using <https://www.southeasterntech.edu/covid-19/>. Report all positive cases of COVID-19 to your instructor and [Stephannie Waters](#), Exposure Control Coordinator, [swaters@southeasterntech.edu](mailto:swaters@southeasterntech.edu), 912-538-3195.

### **ATTENDANCE GUIDELINES**

#### **HYBRID ATTENDANCE**

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 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" (Failing 0-59) 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.

## **STUDENTS WITH DISABILITIES**

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

Swainsboro Campus: [Daphne Scott \(dscott@southeasterntech.edu\)](mailto:dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

## **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 make arrangements with the appropriate campus coordinator.

Swainsboro Campus: [Daphne Scott \(dscott@southeasterntech.edu\)](mailto:dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery MAY NOT be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

## **WITHDRAWAL PROCEDURE**

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (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 for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which the student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" (Failing 0-59) being assigned.

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

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. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

## **WORK ETHICS**

Work Ethics is taught in the WELD 1000 class.

## **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

As set forth in the student catalog, Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, veteran status, or citizenship status (except in those special circumstances permitted or mandated by law).

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

<b>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</b>	<b>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 165 Phone: 912-538-3126 Email: <a href="mailto:hthomas@southeasterntech.edu">Helen Thomas</a> <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a>	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3230 Email: <a href="mailto:ljonas@southeasterntech.edu">Lanie Jonas</a> <a href="mailto:ljonas@southeasterntech.edu">ljonas@southeasterntech.edu</a>

## 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**

<b>Assessment/Assignment</b>	<b>Percentage</b>
Hands On Assignments	95%
Online Test	5%

## **GRADING SCALE**

<b>Letter Grade</b>	<b>Range</b>
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

## WELD 1153 Flux Cored Arc Welding Fall Semester 202114 Lesson Plan

Mar-March, Apr-April

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Mar 7	Flux Cored Arc Welding Set Up and Electrode Selection	First day of class/Class Introduction—Syllabi, Outline, Rules, Regulations Coverage, Library Resources and tour.  Flux Cored Arc Welding Set Up and Electrode Selection	<b>60% In Class</b> <b>40% Hybrid</b>  Instructor will demonstrate proper Flux Cored Arc Welding Set Up and Electrode Selection.  Instructor will explain how to use Blackboard for the class hybrid assignments and how to check student email.	1,2,3,4,5,6,A,B,C
8-10	Flux Cored Arc Welding	-Padded Plate in the flat position, both sides	<b>60% In Class</b> <b>40% Hybrid</b>  <b>In Class</b> -Instructor will demonstrate welding assignments: Padded Plate  -Student will perform and turn in a Padded Plate  <b>Hybrid</b> -Module 1 in Blackboard	1,2,3,4,5,6,A,B,C
14-17	Flux Cored Arc Welding	-Flat (1F) -Vertical (3F) -Overhead (4F) T- Joint *Fillet Weld, 3/8 on one side and a 1/2 on the other *1f- drag or circles, 3F- slight weave, 4F- circles	<b>60% In Class</b> <b>40% Hybrid</b>  <b>In Class</b> -Instructor will demonstrate welding assignments: T-Joint  -Student will perform and turn in a T-Joint  <b>Hybrid</b> -Module 2 in Blackboard	1,2,3,4,5,6,A,B,C

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
21-24	Flux Cored Arc Welding	Flat Double T-Joint - 4 single pass welds - 4 – 3/8 fillets - 4 – 1/2 fillets *drag or circles on all	<b>60% In Class</b> <b>40% Hybrid</b>  <b>In Class</b> -Instructor will demonstrate welding assignments: Double T-Joint -Student will perform and turn in a Double T-Joint <b>Hybrid</b> -Module 3 in Blackboard	1,2,3,4,5,6,A,B,C
28-31	Flux Cored Arc Welding	-Lap Joint, 3/8 on both sides -Butt Joint, both sides	<b>60% In Class</b> <b>40% Hybrid</b>  <b>In Class</b> -Instructor will demonstrate welding assignments: Butt & Lap Joints -Student will perform and turn in a Butt & Lap Joints <b>Hybrid</b> -Module 4 in Blackboard	1,2,3,4,5,6,A,B,C
Apr 4-7	Flux Cored Arc Welding	-Edge Joint -Corner Joint *Flat (1F)	<b>60% In Class</b> <b>40% Hybrid</b>  <b>In Class</b> -Instructor will demonstrate welding assignments: Edge & Corner Joint -Student will perform and turn in a Edge & Corner Joints <b>Hybrid</b> -Module 5 in Blackboard	1,2,3,4,5,6,A,B,C
11-14	No Class	Holiday	Holiday	No Class
18-21	Flux Cored Arc Welding	- Corner Joint * Vertical Up (3F) (weave)	<b>60% In Class</b> <b>40% Hybrid</b>  <b>In Class</b> -Instructor will demonstrate welding assignments: Corner Joint -Student will perform and turn in a Corner Joint <b>Hybrid</b> -See Instructor	1,2,3,4,5,6,A,B,C

<b>Date/Week</b>	<b>Chapter/Lesson</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
25-28	Flux Cored Arc Welding	Weld All-Around	<b>60% In Class</b> <b>40% Hybrid</b>  <b>In Class</b> -Instructor will demonstrate welding assignments: Weld All-Around Joint -Student will perform and turn in a Weld All-Around Joint <b>Hybrid</b> -See Instructor	1,2,3,4,5,6,A,B,C
May 2-5	Flux Cored Arc Welding	Beveled Plate *Vertical (3G)	<b>60% In Class</b> <b>40% Hybrid</b>  <b>In Class</b> -Instructor will demonstrate welding assignments: Beveled Plate -Student will perform and turn in a Beveled Plate <b>Hybrid</b> -See Instructor	1,2,3,4,5,6,A,B,C
May 5	Flux Cored Arc Welding	Last Day	All In Class and Online Assignments Due.	1,2,3,4,5,6,A,B,C

**COMPETENCY AREAS:**

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

**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.

