



TENTATIVE—SUBJECT TO CHANGE

WELD 1040 Basic Shielded Metal Arc Welding HYBRID COURSE SYLLABUS Fall Semester 2021 (202212)

COURSE INFORMATION

Credit Hours/Minutes: 4/4500
Campus/Class Location: Swainsboro/Welding Lab
Class Meets: Monday - Thursday 9:16AM- 11:16PM
Percentages: 90% Face to Face (F2F) / 10% Online
Course Reference Number (CRN): 20032 – Term B Course
Preferred Method of Contact: Email

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Mr. Jason McDonald
Email Address: [Jason McDonald jmcdonald@southeasterntech.edu](mailto:jmcdonald@southeasterntech.edu)
Office Location: EDC/Room 105
Office Hours: By appointment only
Phone: 912-538-3180
Fax Number: 912-538-3156
Tutoring Hours (if applicable): 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 \(http://www.southeasterntech.edu/student-affairs/catalog-handbook.php\)](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php).

REQUIRED TEXT

None

REQUIRED SUPPLIES & SOFTWARE

Long sleeve shirt or welding jacket, welding helmet, clear safety glasses, welding gloves, ear plugs, chipping hammer, half round file with tang, wire brush, Vice grips, combination square, torpedo level, ball peen hammer, 12" Crescent Wrench, 12' tape measure and a 4 ½" angle grinder. 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

This course introduces the major theory, safety practices, and techniques for shielded metal arc welding (SMAW) in the flat position. Qualification tests, flat position, are used in the evaluation of student progress toward making industrial standard welds.

MAJOR COURSE COMPETENCIES

1. Shielded Metal Arc Welding Safety and Health practices
2. Fundamental Shielded Metal Arc Welding Theory
3. Basic Electrical Principles
4. Shielded Metal Arc Welding Machines and Set Up
5. Electrode Identification and Selection
6. Materials Selection and Preparation
7. Production of Beads and Joints in the Flat Position

PREREQUISITE(S)

Program admission

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor Georgia Virtual Technical Connection (GVTC) provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

COURSE OUTLINE

This course will outline Flat Shielded Metal Arc Welding Safety and Health practices, Selection and Applications of Electrodes for Flat Shielded Metal Arc Welding, Flat Shielded Metal Arc Welding Joints, Flat Shielded Metal Arc Welding Specification and 1G Pipe.

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 Catalog and Handbook.

COVID-19 MASK REQUIREMENT

Regardless of vaccination status, masks or face coverings must be worn at all times while in a classroom or lab of Southeastern Technical College. 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). A student's refusal to wear a mask or face covering will be considered a classroom disruption and the student may be asked to leave campus and/or receive further discipline.

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.

COVID-19 Key Symptoms
Fever or felt feverish
Chills
Shortness of breath or difficulty breathing (not attributed to any other health condition)
Cough: new or worsening, not attributed to another 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
In the past 14 days, if you:
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](mailto:swaters@southeasterntech.edu), Exposure Control Coordinator, 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) 478-289-2274, Building 1, Room 1210.

Vidalia Campus: Helen Thomas (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) 478-289-2274, Building 1, Room 1210.

Vidalia Campus: Helen Thomas (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.

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 (TCSG) and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, gender, 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 nondiscrimination policy encompasses the operation of all technical college-administered programs, federally financed programs, educational programs and activities involving admissions, scholarships and loans, student life, and athletics. It also applies to the recruitment and employment of personnel and contracting for goods and services.

All work and campus environments shall be free from unlawful forms of discrimination, harassment and retaliation as outlined under Title IX of the Educational Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, as amended, the Age Discrimination in Employment Act of 1967, as amended, Executive Order 11246, as amended, the Vietnam Era Veterans Readjustment Act of 1974, as amended, Section 504 of

the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, the Equal Pay Act, Lilly Ledbetter Fair Pay Act of 2009, the Georgia Fair Employment Act of 1978, as amended, the Immigration Reform and Control Act of 1986, the Genetic Information Nondiscrimination Act of 2008, the Workforce Investment Act of 1998 and other related mandates under TCSG Policy, federal or state statutes.

The Technical College System and Technical Colleges shall promote the realization of equal opportunity through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

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 165 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	90%
Online Assignments	10%

GRADING SCALE

Letter Grade	Range
A	90-100

Letter Grade	Range
B	80-89
C	70-79
D	60-69
F	0-59

Course Number and Name

Fall Semester 2021 Lesson Plan

Oct- October Nov- November Dec- December

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Oct 12	Shielded Metal Arc Welding Set Up and Electrode Selection	First day of class/Class Introduction—Syllabi, Outline, Rules, Regulations Coverage, Library Resources and tour. Shielded Metal Arc Welding Set Up and Electrode Selection	90% In Class 10% Hybrid Instructor will demonstrate proper Shielded Metal 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.	1,2,3,4,5,6,7 A,B,C
13&14	Shielded Metal Arc Welding	-1F Padded Plate 7018 Electrodes	90% In Class 10% Hybrid In Class -Instructor will demonstrate welding assignments: Padded Plate -Student will perform and turn in a Padded Plate Hybrid -Module 1 in Blackboard	1,2,3,4,5,6,7 A,B,C
18-21	Shielded Metal Arc Welding	-Butt Joints - 1F Fillet Welds 7018 Electrodes - Lap Joints -1F Fillet Welds 7018 Electrodes	90% In Class 10% Hybrid In Class -Instructor will demonstrate welding assignments: Butt & Lap Joints -Student will perform and turn in a Butt & Lap Joints Hybrid -Module 2 in Blackboard	1,2,3,4,5,6,7 A,B,C

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
25-28	Shielded Metal Arc Welding	-T-Joints – 1F Fillet Welds 7018 Electrodes - Double T-Joints – 1F Fillet Welds 7018 Electrodes	90% In Class 10% Hybrid In Class -Instructor will demonstrate welding assignments: T-Joint & Double T-Joint -Student will perform and turn in a T-Joint & Double T-Joints Hybrid -Module 3 in Blackboard	1,2,3,4,5,6,7 A,B,C
Nov 1-4	Shielded Metal Arc Welding	-Double T-Joints – 1F Fillet Welds 7018 Electrodes	90% In Class 10% Hybrid In Class -Instructor will demonstrate welding assignments: Double T-Joint -Student will perform and turn in a Double T-Joint Hybrid -Module 4 in Blackboard	1,2,3,4,5,6,7 A,B,C
8-11	Shielded Metal Arc Welding	-Double T-Joints – 1F Fillet Welds 7018 Electrodes	90% In Class 10% Hybrid In Class -Instructor will demonstrate welding assignments: Double T-Joint -Student will perform and turn in a Double T-Joint Hybrid -Module 5 in Blackboard	1,2,3,4,5,6,7 A,B,C

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
15-18	Shielded Metal Arc Welding	- Corner Joints – 1F Fillet Welds 7018 Electrodes - Edge Joints – 1F Fillet Welds 7018 Electrodes	90% In Class 10% Hybrid In Class -Instructor will demonstrate welding assignments: Corner Joint & Edge Joint -Student will perform and turn in a Corner Joint & Edge Joint Hybrid -Module 6 in Blackboard -Quiz in Blackboard	1,2,3,4,5,6,7 A,B,C
22&23	Shielded Metal Arc Welding	- Chain Fillet Welds 7018 Electrodes - Staggered Fillet Welds 7018 Electrodes	90% In Class 10% Hybrid In Class -Instructor will demonstrate welding assignments: Chain & Staggered Weld -Student will perform and turn in a Chain & Staggered Weld Hybrid -Quiz in Blackboard	1,2,3,4,5,6,7 A,B,C
24&25	Holiday	Holiday	Holiday	Holiday
Nov 29- Dec 2	Shielded Metal Arc Welding	-1F Weld All-Around Fillet Welds 7018 Electrodes	90% In Class 10% Hybrid In Class -Instructor will demonstrate welding assignments: Weld All-Around Joint -Student will perform and turn in a Weld All-Around Joint Hybrid -Module 7 in Blackboard -Quiz in Blackboard	1,2,3,4,5,6,7 A,B,C

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
6&7 Semester Ends	Shielded Metal Arc Welding	-1F Beveled Plate 7018 Electrodes	90% In Class 10% Hybrid In Class -Instructor will demonstrate a Beveled Plate. -Students will perform a Beveled Plate for certification Hybrid -Blackboard video on Beveled Plate -Test on Shielded Metal Arc Welding	1,2,3,4,5,6,7 A,B,C

COMPETENCY AREAS

1. Shielded Metal Arc Welding Safety and Health practices
2. Fundamental Shielded Metal Arc Welding Theory
3. Basic Electrical Principles
4. Shielded Metal Arc Welding Machines and Set Up
5. Electrode Identification and Selection
6. Materials Selection and Preparation
7. Production of Beads and Joints in the Flat Position

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.

