



TENTATIVE—SUBJECT TO CHANGE

WELD 1010 Oxyfuel and Plasma Arc Cutting COURSE SYLLABUS Fall Semester 2023 (202412)

COURSE INFORMATION

Credit Hours/Minutes: 4/4500

Class Location: Room 6215

Class Meets: Monday, Tuesday, Wednesday, & Thursday 8:00AM-10:30PM

CRN: 20053

INSTRUCTOR CONTACT INFORMATION

Instructors(s) Name: Mr. Edenfield

Office Location: Room 6106

Office Hours: Monday-Thursday 7AM-8AM, 4PM-5PM

Email Address: cedenfield@southeasterntech.edu

Phone: 478-289-2325

Fax Number: 478-289-2276

Tutoring Hours (if applicable): Monday-Thursday 7AM-8AM, 4PM-5PM

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

Welding Principles and Applications 8th Edition by Larry Jeffus

REQUIRED SUPPLIES & SOFTWARE

Each student should have the following: Spiral notebook, pen, pencil, highlighter, 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. You will not be permitted to borrow from the Instructor or your fellow classmates.

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.

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

COURSE DESCRIPTION

This course introduces welding technology with an emphasis on basic welding laboratory principles and operating procedures. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards.

MAJOR COURSE COMPETENCIES

1. Industrial Safety and Health Practices
2. Hand Tool and Power Machine Use
3. Measurement
4. Welding Career Potentials
5. Oxyacetylene Welding Safety and Use
6. Oxyacetylene Welding Practices
7. Brazing

PREREQUISITE(S)

All required

COURSE OUTLINE

Industrial Safety and Health Practices; Hand Tool and Power Machine use; Measurement; Laboratory Operating procedures; Welding Career potentials; and Introduction to Welding Codes and Standards.

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

ATTENDANCE GUIDELINES

ON CAMPUS (CA) 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" (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: [Emily Jarrell \(ejarrell@southeasterntech.edu\)](mailto:ejarrell@southeasterntech.edu), 478-289-2259, 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: [Emily Jarrell \(ejarrell@southeasterntech.edu\)](mailto:ejarrell@southeasterntech.edu), 478-289-2259, 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

Instruction in the development of good work habits (work ethics) which aid in job retention and advancement is included in this course. This instruction will include weekly activities on a topic related to work ethics. Included are behaviors such as arriving for classes or meetings on time; completing work satisfactorily and on time; responding positively to supervision; following directions correctly; adhering to policies/regulations; using tools and resources properly; observing safety provisions; and working effectively as part of a team. A separate work ethics grade will be assigned and will count 5% of the course grade.

The Technical College System of Georgia instructs and evaluates students on work ethics in all programs of study. Ten work ethics traits have been identified and defined as essential for student success: appearance, attendance, attitude, character, communication, cooperation, organizational skills, productivity, respect, and teamwork. Students will be required to take a work ethics exam as marked in the lesson plan. A grade of 70 or better is required to complete the work ethics requirements for this 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:

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	Until HR position is filled, contact Denise Powell, VP of Administrative Services Vidalia Campus 3001 East 1 st Street, Vidalia Office 138C Phone: 912-538-3162 Email: Denise Powell dpowell@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
Assignments	100%

GRADING SCALE

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

WELD 1010 Introduction to Welding Technology

Fall Semester 2023 Lesson Plan

Oct – October Nov – November Dec - December

Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
Oct 16	Oxyfuel Cutting Equipment, Operation and Set Up	First day of class/Class Introduction— Syllabi, Outline, Rules, Regulations Coverage, and tour Oxyfuel Cutting Equipment and Set Up	Instructor will demonstrate proper Oxyfuel Cutting Set Up and Cutting Techniques, Instructor will explain how to use Blackboard for the class Online assignments and how to check student email.	1,2,3,4,5,6,7,A,B,C
Oct 17-31	-Chapter 7 Flame Cutting - Chapter 8 Plasma Arc Cutting -Chapter 9 Cutting & Gouging - Chapter 31 Oxyfuel Setup - Chapter 32 Oxyacetylene Welding - Chapter 33 Brazing	Flame Cutting, Metals, Eye Protection, Oxyfuel Cutting, Set Up, Hand Cutting, Layout Oxyfuel Cutting – Pipe Cutting, Track Torch Plasma Cutting Arc Gouging Oxyacetylene Welding Brazing Oxyfuel Cutting Quiz	-Students will practice Oxyfuel Cutting set up and hand cutting techniques. -Instructor will demonstrate using an oxyfuel pipe beveller and track torch. -Instructor will demonstrate plasma cutting, oxyacetylene welding, and brazing. -Students will practice plasma cutting, oxyacetylene welding, and brazing.	1,2,3,4,5,6,7,A,B,C
Nov 1-16	Oxyfuel Cutting	Oxyfuel Cutting Layout and Cutting	-Students will practice layout and cutting. -Students will complete assignments given by Instructor. See Instructor	1,2,3,4,5,6,7,A,B,C
Nov 20-23	Holiday	No Class	Thanksgiving Holidays	Holiday
Nov 27-30	Oxyfuel Cutting	Oxyfuel Cutting Layout and Cutting	-Students will practice layout and cutting. -Students will complete assignments given by Instructor. See Instructor.	1,2,3,4,5,6,7,A,B,C
Dec 4-7	Oxyfuel Cutting	Oxyfuel Cutting Layout and Cutting	All Oxyfuel Cutting Assignments Due	1,2,3,4,5,6,7,A,B,C
Dec 11&12	Oxyfuel Cutting FINAL EXAM	FINAL EXAM	Oxyfuel Cutting Set-up, Adjusting Pressure, Torch Lighting, and Shut Off	1,2,3,4,5,6,7,A,B,C

Competency Areas:

1. Safety procedures
2. Metal heating and Cutting techniques
3. Manual and Automatic Oxyfuel Cutting Techniques
4. Oxyfuel Pipe Cutting
5. Plasma Torch and Theory
6. Plasma Machine Set Up and Operation
7. Plasma Cutting Techniques

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.