



**WELD 1150 Advanced Gas Tungsten Arc Welding  
COURSE SYLLABUS  
Summer Semester 2021**

**COURSE INFORMATION**

Credit Hours/Minutes: 3/3750  
Class Location: Room 416  
Class Meets: M, W 1:00-4:40 p.m.  
CRN: 60167

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: Mr. Michael Crumpler  
Office Location: Room 417  
Office Hours: Tuesday, Thursday, 8:00-2:30 p.m.  
Email Address: [Michael Crumpler mcrumpler@southeasterntech.edu](mailto:Michael.Crumpler@southeasterntech.edu)  
Phone: 912-538-3257  
Fax Number: 912-538-3156  
Tutoring Hours: By appointment only

**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, Klines or heavy duty wire cutters, ball peen hammer and a large flathead screwdriver. 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 provides knowledge of theory, safety practices, inert gas, equipment, and techniques for successful advanced gas tungsten arc welding. Qualification tests, all positions, are used in the evaluating of student progress toward making advanced industrial standard welds. Topics include: GTAW safety and health

practices, shielding gases, metal cleaning procedures, GTAW machines and set up, selection of filler rods, GTAW Weld positions, and advanced production of GTAW beads, bead patterns, and joints.

### **MAJOR COURSE COMPETENCIES**

1. GTAW Safety and Health Practices
2. Shielding Gases
3. Metal Cleaning Procedures
4. GTAW Machines and Set Up
5. Selection of Filler Rods
6. GTAW Weld Positions
7. Advanced Production of GTAW Beads, Bead Patterns, and Joints

### **PREREQUISITE(S)**

All required

### **COURSE OUTLINE**

GTAW Safety and Health practices, Shielding Gases, Metal Cleaning procedures, GTAW machines and set up, Selection of Filler Rods, GTAW Weld positions, and Advanced Production of GTAW Beads, Bead Patterns, and Joints.

### **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**

All assignments must be completed by 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" (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.

**Vidalia and Swainsboro Campuses:** Helen Thomas [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 108

## **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:** Macy Gay [mgay@southeasterntech.edu](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1208

**Vidalia Campus:** Helen Thomas [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 108

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.

## **EXIT EXAM**

None

## **WORK ETHICS**

Work Ethics are taught in WELD 1000 Introduction to Welding Technology.

## **MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC.)**

Any assignment can be made up with acceptable excuse approved by the instructor; any assignment 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:

<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 108 Phone: 912-538-3126 Email: <a href="mailto:Helen.Thomas@southeasterntech.edu">Helen.Thomas@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">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

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 1150 Advanced Gas Tungsten Arc Welding Summer Semester 2021 Lesson Plan

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
May 17	GTAW Set Up and Electrode Selection	First day of class, introductions, Syllabi, Use of Blackboard, Grading Rubric GTAW Set Up and Electrode Selection	Refresher of proper GTAW machine set up, electrode selection and gas selection given by Instructor. Demonstration given by Instructor of fitting and welding pipe in the 1G position.	1,2,3,4,5,6, 7,A,B,C
19	1G Pipe	Instructor demonstrates proper welding of 1G Pipe. Students practicing 1G Pipe.	Students practicing 1G Pipe.	1,2,3,4,5,6,7,A,B,C
24	1G Pipe	1G Pipe	Students practicing 1G Pipe.	1,2,3,4,5,6,7,A,B,C
26	1G Pipe	1G Pipe	Students practicing 1G Pipe.	1,2,3,4,5,6,7,A,B,C
31	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
June 2	2G Pipe	Instructor demonstrates proper welding of 2G Pipe. Students practicing 2G Pipe.	Students practicing 2G Pipe.	1,2,3,4,5,6,7,A,B,C
7	2G Pipe	2G Pipe	Students practicing 2G Pipe.	1,2,3,4,5,6,7,A,B,C
9	2G Pipe	2G Pipe	Students practicing 2G Pipe.	1,2,3,4,5,6,7,A,B,C
14	2G Pipe	2G Pipe	Students practicing 2G Pipe.	1,2,3,4,5,6,7,A,B,C
16	2G Pipe	2G Pipe	Students practicing 2G Pipe.	1,2,3,4,5,6,7,A,B,C
21	5G Pipe	Instructor demonstrates proper welding of 5G Pipe. Students practicing 5G Pipe.	Students practicing 5G Pipe.	1,2,3,4,5,6,7,A,B,C
23	5G Pipe	5G Pipe	Students practicing 5G Pipe.	1,2,3,4,5,6,7,A,B,C
28	5G Pipe	5G Pipe	Students practicing 5G Pipe.	1,2,3,4,5,6,7,A,B,C
30	5G Pipe	5G Pipe	Students practicing 5G Pipe.	1,2,3,4,5,6,7,A,B,C
July 5	NO CLASS	HOLIDAY	NO CLASS	HOLIDAY
7	NO CLASS	HOLIDAY	NO CLASS	HOLIDAY

<b>Date/Week</b>	<b>Chapter/Lesson</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
12	5G Pipe	5G Pipe	Students practicing 5G Pipe.	1,2,3,4,5,6,7,A,B,C
14	6G Pipe	Instructor demonstrates proper welding of 6G Pipe. Students practicing 6G Pipe.	Students practicing 6G Pipe.	1,2,3,4,5,6,7,A,B,C
19	6G Pipe	6G Pipe	Students practicing 6G Pipe.	1,2,3,4,5,6,7,A,B,C
21	6G Pipe	6G Pipe	Students practicing 6G Pipe.	1,2,3,4,5,6,7,A,B,C
26	6G Pipe	6G Pipe	Students practicing 6G Pipe.	1,2,3,4,5,6,7,A,B,C

**COMPETENCY AREAS:**

1. GTAW Safety Practices and Health Practices
2. Shielding Gases
3. Metal Cleaning Procedures
4. GTAW Machine and Equipment Set Up
5. Selection of Filler Rods
6. GTAW Welding Positions
7. Advanced Production of GTAW Beads, Bead Patterns, and Joints.

**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.

