



**Blueprint Reading / WELD 1030  
COURSE SYLLABUS  
Summer Semester 2016**

Semester: Summer 2016  
Course Title: Blueprint Reading  
Course Number: WELD 1030  
Credit Hours/ Minutes: 3 / 3750  
Class Location: Room # 416  
Class Meets: M/T/W/R 8:30-10:15  
CRN: 60073

Instructor: Mr. Chris Cumbee  
Office Hours: M/T/W/R 7:00-8:00  
Office Location: Room 6106 Building 6  
Email Address: ccumbee@southeasterntech.edu  
Phone: 478-289-2325

**REQUIRED TEXT:** Blueprint Reading for Welders 9<sup>th</sup> Edition by Bennett and Siy

**REQUIRED SUPPLIES & SOFTWARE:** Spiral notebook, pen, and highlighter. **All students must have these items by the 1st day of class; no exceptions.** You will not be permitted to borrow from the instructor or your fellow classmates.

**COURSE DESCRIPTION:** Introduces the knowledge and skills for reading welding and related blueprints and sketches. An emphasis is placed on identifying types of welds, and the associated abbreviations and symbols.

**MAJOR COURSE COMPETENCIES:**

1. Basic Lines, Sketching and Sectional Views
2. Detailed Specifications and Isometrics
3. Structural Shapes and Joint Design
4. Welding Symbols and Abbreviations
5. Industry Welds and Fabrication

**PRE-REQUISITE(S):** None

**CO-REQUISITES:** All Required, WELD 1000 Introduction to Welding Technology

**COURSE OUTLINE:** Basic Lines, Sketching, Basic and Sectional Views, Detailed Specifications and Isometrics, Structural Shapes and Joint Design, Welding Symbols and Abbreviations, Industry Welds and Fabrication.

**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.
4. The ability to utilize basic computer skills.

All students pursuing a degree, a diploma, or a Technical Certificate of Credit with a General Education component will be required to pass the General Education Competency Exams prior to graduation.

**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:** 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.

**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 the Special Needs Office. Swainsboro Campus: Jan Brantley (478) 289-2274 - Vidalia Campus: Helen Thomas Room 108 (912) 538-3126.

**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 Jan Brantley, Room 1208 Swainsboro Campus, 478-289-2274, or Helen Thomas, Room 108 Vidalia Campus, 912-538-3126, to coordinate reasonable accommodations.

**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 STC Academic Dishonesty Policy states *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 *STC Catalog and Student Handbook.*

### **Procedure for Academic Misconduct**

The procedure for dealing with academic misconduct and dishonesty is as follows:

#### **--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.

#### **--Second Offense--**

Student is given a grade of "WF" 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.

#### **--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 second 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:** Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, disabled veteran, veteran of Vietnam Era 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).

**GRIEVANCE PROCEDURES:** Grievance procedures can be found in the Catalog and Handbook located on STC'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 STC website at [www.southeasterntech.edu](http://www.southeasterntech.edu).

**GRADING POLICY**  
Written Tests 100%

**GRADING SCALE**  
A: 90-100  
B: 80-89  
C: 70-79  
D: 60-69  
F: 0-59

**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.*

<b>WELD 1030—BLUEPRINT READING Summer Semester 2016 Lesson Schedule</b>				
Date	Chapter / Lesson	Content	Assignments Tests	*Competency Area
May 18	Basic Lines and Views	First day of class/Class Introduction—Syllabi, Outline, Rules, Regulations Coverage, Library Resources and tour. Unit 1 Basic Lines and Views	Unit 1 Reviews A,B	1,A,B,
19	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	Unit 2 Review	1,2,4,A,B,C
23	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	Unit 2 Review	1,2,4,A,B,C
24	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	Unit 2 Review	1,2,4,A,B,C
25	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	Unit 2 Review	1,2,4,A,B,C
26	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	Unit 2 Review	1,2,4,A,B,C
May 30	<b>HOLIDAY</b>	<b>NO-CLASS</b>	<b>NO-CLASS</b>	<b>HOLIDAY</b>

31	Notes and Specifications	Unit 3 Notes and Specifications Local, General and Specifications	Test Units 1, 2 Unit 3 Review	1,3,A,B
June 1	Notes and Specifications	Unit 3 Notes and Specifications Local, General and Specifications	Unit 3 Review	1,3,A,B
2	Notes and Specifications	Unit 3 Notes and Specifications Local, General and Specifications	Unit 3 Review	1,3,A,B
6	Dimensions	Unit 4 Dimensions Tolerances, Scale Sizes, Dimensioning Methods	Unit 4 Reviews A,B	1,3,A,B,C
7	Dimensions	Unit 4 Dimensions Tolerances, Scale Sizes, Dimensioning Methods	Unit 4 Reviews A,B	1,3,A,B,C
8	Dimensions	Unit 4 Dimensions Tolerances, Scale Sizes, Dimensioning Methods	Unit 4 Reviews A,B	1,3,A,B,C
9	Dimensions	Unit 4 Dimensions Tolerances, Scale Sizes, Dimensioning Methods	Unit 4 Reviews A,B	1,3,A,B,C
13	Bill of Materials	Unit 5 Bill of Materials Preparing a Bill of Materials	Unit 5 review A Test Units 3, 4	1,3,A,B
14	Bill of Materials	Unit 5 Bill of Materials Preparing a Bill of Materials	Unit 5 review	1,3,A,B
15	Bill of Materials	Unit 5 Bill of Materials Preparing a Bill of Materials	Unit 5 review	1,3,A,B
16	Bill of Materials	Unit 5 Bill of Materials Preparing a Bill of Materials	Unit 5 review	1,3,A,B
20	Structural Shapes	Unit 6 Structural Shapes	Unit 6 Review Test Unit 5	1,5,A,B
21	Structural Shapes	Unit 6 Structural Shapes	Unit 6 Review	1,5,A,B
22	Structural Shapes	Unit 6 Structural Shapes	Unit 6 Review	1,5,A,B
23	Structural Shapes	Unit 6 Structural Shapes	Unit 6 Review	1,5,A,B
27	Detail, Assembly and Subassembly Drawings	Unit 9 Detail, Assembly and Subassembly Drawings	Unit 9 Review	6,A,B
28	Detail, Assembly and Subassembly Drawings	Unit 9 Detail, Assembly and Subassembly Drawings	Unit 9 Review	6,A,B
29	Detail, Assembly and Subassembly Drawings	Unit 9 Detail, Assembly and Subassembly Drawings	Unit 9 Review	6,A,B
30	Detail, Assembly and Subassembly Drawings	Unit 9 Detail, Assembly and Subassembly Drawings	Unit 9 Review	6,A,B

July 4	HOLIDAY	NO-CLASS	NO-CLASS	HOLIDAY
5	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	Test Units 6, 9	1,3,4,5,6,7,A,B
6	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	Unit 10 Review A	1,3,4,5,6,7,A,B
7	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	Unit 10 Review A	1,3,4,5,6,7,A,B
11	Basic Joints for Weldment Fabrications	Unit 11 Basic Joints for Weldment Fabrications	Unit 11 Review	1,3,4,5,6,7,A,B
12	Fillet Welds	Unit 12 Fillet Welds	Unit 12 Review A	1,2,3,4,5,6,7,A,B,C
13	Groove Welds	Unit 13 Groove Welds	Test Units 10, 11, 12	1,2,3,4,5,6,7,A,B,
14	Groove Welds	Unit 13 Groove Welds	Unit 13 Review	1,2,3,4,5,6,7,A,B,
18	Back or Backing and Melt Thru Welds	Unit 14 Back or Backing and Melt Thru Welds	Unit 14 Review	1,2,3,4,5,6,7,A,B,
19	Plug and Slot Welds	Unit 15 Plug and Slot Welds	Unit 15 Review	7,A,B,
20	Surfacing Welds	Unit 16 Surfacing Welds	Unit 16 Review	7,A,B,
21	Edge Welds	Unit 17 Edge Welds	Unit 17 Review	7,A,B,
25	Spot Welds	Spot Welds	Unit 18 Review	7,A,B,
25	Seam Welds	Unit 20 Seam Welds	Unit 20 Review	7, A,B,
25	Stud Welds	Unit 21 Stud Welds	Unit 21 Review	7,A,B,
26	Reviewing for Final Exam	Reviewing for Final Exam	Study Guide	1,2,3,4,5,6,7,A,B,
27	FINAL EXAM	FINAL EXAM	FINAL EXAM	1,2,3,4,5,6,7,A,B,

**Competency Areas:**

1. Basic Lines
2. Sketching
3. Dimensions, Notes, Specifications
4. Isometrics
5. Structural Shapes and Joint design
6. Detail and Assembly of Prints
7. Welding Symbols

**General Education 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.
- D. The ability to utilize basic computer skills.