



INSTRUCTIONAL PACKAGE

CET 127 C01
BUILDING CONSTRUCTION AND
PRINT READING

Effective Term
Fall 2022/Spring 2023/Summer 2023

INSTRUCTIONAL PACKAGE

Part I: Course Information

Effective Term: Fall 2022

COURSE PREFIX: CET 127 C01

COURSE TITLE: Building Construction and Print
Reading

CONTACT HOURS: 6.0

CREDIT HOURS: 4.0

RATIONALE FOR THE COURSE:

This course prepares the student to acquire knowledge of the residential and commercial building construction industry. This course involves the study of construction materials, methods and techniques, including print reading and material takeoff in accordance with the Construction Specifications Institute (CSI) format. The course will provide the student with a firm understanding of how a set of drawings describe how to construct residential and commercial buildings.

COURSE DESCRIPTION:

This course is a study of construction methods and print reading. The course includes an overview of construction math and the use of Specifications in the construction industry. Included in the course is the requirement for material takeoffs using Excel and construction drawings.

PREREQUISITES/CO-REQUISITES:

Credit level MAT 155 Minimum Grade of C or Credit level MAT 155 Minimum Grade of TC or Credit level MAT 101 Minimum Grade of C or Credit level MAT 101 Minimum Grade of TC or Credit level MAT 102 Minimum Grade of C or Credit level MAT 102 Minimum Grade of TC or Credit level MAT 110 Minimum Grade of C or Credit level MAT 110 Minimum Grade of TC or Credit level MAT 175 Minimum Grade of C or Credit level MAT 175 Minimum Grade of TC or Credit level MAT 120 Minimum Grade of C or Credit level MAT 120 Minimum Grade of TC or COMPASS Pre-Algebra 40 or ACCUPLACER Arithmetic 043 or COMPANION Arithmetic 043 or ACT Math 16 or SAT Mathematics 400) and (COMPASS Reading 65 or ACCUPLACER Reading Comp 056 or COMPANION Reading 056 or SAT Critical Reading 380 or ACT Reading 14 or Credit level ENG 101 Minimum Grade of C or Credit level ENG 101 Minimum Grade of TC or Credit level ENG 155 Minimum Grade of C or Credit level ENG 155 Minimum Grade of TC) or (Multiple Measures English 1 or Multiple Measures Math 1)

REQUIRED MATERIALS:

Please visit the [BOOKSTORE](#) online site for most current textbook information.

Enter the semester, course prefix, number and section when prompted and you will be linked to the correct textbook.

Text: Print Reading for Construction-W/Prints 8th Edition By: Walter C. Brown/Daniel P. Dorfmueller; ISBN 978-1649259851

This text is required.

ADDITIONAL REQUIREMENTS:

Engineering Scale/Architectural Scale
Color Pencils or Color Highlighters
Engineering Calculator

TECHNICAL REQUIREMENTS:

Access to Desire2Learn (D2L), HGTC's student portal for course materials.
myHGTC and college email access.

MS Word

MS Excel

Use of Architectural and Engineer scales which will be taught in the class.

CLASSROOM ETIQUETTE:

As a matter of courtesy to other students and your professor, please turn off cell phones and other communication/entertainment devices before class begins. If you are monitoring for an emergency, please notify your professor prior to class and switch cell phone ringers to vibrate. **You will be ordered to leave the class if texting or any other cell phone activity is occurring.**

Part II: Student Learning Outcomes

COURSE LEARNING OUTCOMES and ASSESSMENTS*:

1. Identify the symbols, dimensions, scales and terminology in construction drawings.
2. Calculate dimensions, areas and volumes.
3. Understand of how the building code and specifications affect building construction.
4. Utilize the standard Construction Specifications Institute (CSI) format.
5. Describe the various types of materials used in construction: earth/fill, concrete, PVC, plastic, steel – light gauge and structural, wood, etc.
6. Read and interpret floor plans, elevations, sections and detail drawings.
7. Prepare a material takeoff list from Civil, Architectural and MEP drawings.

Unit #1

Materials Covered:

Understanding Construction Math

Reading and Using Engineering and Architectural Scales

Understanding Lines and Symbols

*Assessment (s): Unit 1 Test and Assignments

***Assessment(s):** Unit I Test, Scales Test, and chapter assignments

Unit #2**Materials Covered:**

Sketching

Introduction to Specifications and Building Codes

Construction Materials Overview

Reading and Understanding Site Plans

Takeoff #1 Site Plans

*Assessment(s): Unit 2 Test, assignments, and Takeoff #1 Site Plan

Unit #3**Materials Covered:**

Reading and Understanding Architectural Drawings

Reading and Understanding Foundation Drawings

Takeoff #2 Foundations

Reading and Understanding Structural Drawings

Reading and Understanding Residential Framing

Takeoff #3 Structural

Takeoff #4 Finishes

*Assessment(s): Unit 3 Test, Assignments, Takeoff #2 Foundations, Takeoff #3 Structural, Takeoff #4 Finishes

Unit #4**Materials Covered:**

Reading and Understanding Plumbing Drawings

Reading and Understanding HVAC Drawings

Reading and Understanding Electrical Drawings

Introduction to Welding Principals

*Assessment(s): Unit 4 Test and Assignments

****Students – please refer to the Instructor’s Course Information sheet for specific information on assessments and due dates.***

Part III: Grading and Assessment**EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS*:**

Students’ performance will be assessed and the weight associated with the various measures/artifacts are listed below.

EVALUATION*

Tests	40%
Assignments	30%
Material Takeoffs	20%
Final Exam	10%
	100%

****Students, for the specific number and type of evaluations, please refer to the Instructor’s Course Information Sheet.***

GRADING SYSTEM:

The College adheres to a 10 point grading scale. The grading scale requires that grades within the indicated range be defined as: A: 90-100 B: 80-89 C: 70-79 D: 60-69 F: Below 60

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, WFs and Is also negatively impact academic progression and financial aid status.

The Add/Drop Period is the first 5 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format courses. Please refer to the [academic calendar](#) for deadlines for add/drop. You must attend at least one meeting of all of your classes during that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly.

Part IV: Attendance

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of 80 percent (80%) of their classes in order to receive credit for any course. Due to the varied nature of courses taught at the college, some faculty may require up to 90 percent (90%) attendance. Pursuant to 34 Code of Federal Regulations 228.22 - Return to Title IV Funds, once a student has missed over 20% of the course or has missed two (2) consecutive weeks, the faculty is obligated to withdraw the student and a student may not be permitted to reenroll. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

Part V: Student Resources



THE STUDENT SUCCESS AND TUTORING CENTER (SSTC):

The SSTC offers to all students the following **free** resources:

1. **Academic tutors** for most subject areas, **Writing Center support**, and **college success skills**.
2. Online **tutoring** and academic support resources.
3. Professional and interpersonal communication **coaching** in the EPIC Labs.

Visit the [Student Success & Tutoring Center](#) website for more information. To schedule tutoring, contact the SSTC at ssc@hgtc.edu or self-schedule in the Penji iOS/Android app or at www.penjiapp.com. Email ssc@hgtc.edu or call SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455, or go to the [Online Resource Center](#) to access on-demand resources.



STUDENT INFORMATION CENTER: TECH Central

TECH Central offers to all students the following free resources:

1. **Getting around HGTC:** General information and guidance for enrollment, financial aid, registration, and payment plan support!
2. Use the [Online Resource Center \(ORC\)](#) including Office 365 support, password resets, and username information.
3. **In-person workshops, online tutorials and more services** are available in Desire2Learn, Student Portal, Degree Works, and Office 365.
4. **Chat with our staff on TECH Talk**, our live chat service. TECH Talk can be accessed on the student portal and on TECH Central's website, or by texting questions to (843) 375-8552.

Visit the [Tech Central](#) website for more information. Live Chat and Center locations are posted on the website. Or please call (843) 349 – TECH (8324), Option #1.

DISABILITY SERVICES:

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to HGTC's [Accessibility and Disability Service webpage](#). The Accessibility and Disability staff will review documentation of the student's disability and, in a confidential setting with the student, develop an educational accommodation plan.

Note: It is the student's responsibility to self-identify as needing accommodations and to provide acceptable documentation. After a student has self-identified and submitted documentation of a disability, accommodations may be determined, accepted, and provided.

STATEMENT OF EQUAL OPPORTUNITY/NON-DISCRIMINATION STATEMENT:

Horry-Georgetown Technical College prohibits discrimination and harassment, including sexual harassment and abuse, on the basis of race, color, sex, national or ethnic origin, age, religion, disability, marital or family status, veteran status, political ideas, sexual orientation, gender identity, or pregnancy, childbirth, or related medical conditions, including, but not limited to, lactation in educational programs and/or activities.

TITLE IX REQUIREMENTS:

All students (as well as other persons) at Horry-Georgetown Technical College are protected by Title IX—regardless of their sex, sexual orientation, gender identity, part- or full-time status, disability, race, or national origin—in all aspects of educational programs and activities. Any student, or other member of the college community, who believes that he/she is or has been a victim of sexual harassment or sexual violence may file a report with the college's Chief Student Services Officer, campus law enforcement, or with the college's Title IX Coordinator, or designee.

*Faculty and Staff are required to report incidents to the Title IX Coordinators when involving students. The only HGTC employees exempt from mandatory reporting are licensed mental health professionals (only as part of their job description such as counseling services).

INQUIRIES REGARDING THE NON-DISCRIMINATION/TITLE IX POLICIES:

Student and prospective student inquiries concerning Section 504, Title II, and Title IX and their application to the College or any student decision may be directed to the Vice President for Student Affairs.

Dr. Melissa Batten, VP Student Affairs

Title IX Coordinator

Building 1100, Room 107A, Conway Campus

PO Box 261966, Conway, SC 29528-6066

843-349-5228

Melissa.Batten@hgtc.edu

Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Vice President for Human Resources.

Jacquelyne Snyder, VP Human Resources

EEO and Title IX Coordinator

Building 200, Room 212A, Conway Campus

PO Box 261966, Conway, SC 29528-6066

843-349-5212

Jacquelyne.Snyder@hgtc.edu