



# INSTRUCTIONAL PACKAGE

AET 101 C01

BUILDING SYSTEMS 1

Effective Term  
Spring/2020

# INSTRUCTIONAL PACKAGE

## Part I: Course Information

**Effective Term:** Spring 2020

**COURSE PREFIX:** AET 101      C01      **COURSE TITLE:** Building Systems 1

**CONTACT HOURS:** 5.0      **CREDIT HOURS:** 3.0

### **RATIONALE FOR THE COURSE:**

This course is an introduction to the various system assemblies and components of a building. The student will study building foundations, cast-in-place and pre-cast concrete framing, steel framing, load-bearing walls, curtain walls, roof systems and interior finishing systems.

### **COURSE DESCRIPTION:**

This course is a study of the fundamental concepts of design and construction techniques in residential, commercial, and industrial buildings.

### **PREREQUISITES/CO-REQUISITES:**

COMPASS Reading 65 or ACT Reading 14 or SAT Critical Reading 380 or Credit level [ENG 100](#) minimum Grade of C or Credit level [ENG 155](#) Minimum Grade of C 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 TC or Credit level [ENG 032](#) Minimum Grade of C

### **REQUIRED MATERIALS:**

Textbooks: *Construction Materials, Methods and Techniques*, 3<sup>rd</sup> Edition, by Spence & Kultermann. ISBN: 978-1-4354-8108-4 **This text is required.**

Please visit the Bookstore online site for most current textbook information. Use the direct link below to find textbooks.

[BOOKSTORE](#).

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

### **ADDITIONAL REQUIREMENTS:**

None

### **TECHNICAL REQUIREMENTS:**

Access to Desire2Learn (D2L), HGTC's student portal for course materials.

WaveNet and D2L email access.

### **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.

**NETIQUETTE:** is the term commonly used to refer to conventions adopted by Internet users on the web, mailing lists, public forums, and in live chat focused on online communications etiquette. For more information regarding Netiquette expectations for distance learning courses, please visit [Online Netiquette](#).

## **Part II: Student Learning Outcomes**

### **COURSE LEARNING OUTCOMES and ASSESSMENTS\*:**

#### **Unit #1**

##### ***Materials Covered:***

Chapter 1: Overview of the construction industry  
Chapter 2: Building codes, regulations and standards  
Chapter 4: The building site  
Chapter 5: Soils  
Chapter 6: Foundations

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

##### ***Learning Outcomes:***

1. Gain knowledge about the current building codes: IRC and IBC
2. Describe the various types of soils
3. Interpret a Soils Engineering Report
4. List and describe the different type of building foundation systems

#### **Unit #2**

##### ***Materials Covered:***

Chapter 8: Cast-in-place concrete  
Chapter 9: Precast concrete  
Chapter 14: Masonry construction  
Chapter 17: Steel frame construction  
Chapter 20: Wood and metal light-frame construction

**\*Assessment(s):** Unit II Test and chapter assignments

**Learning Outcomes:**

1. Describe the primary types of building framing systems: wood, concrete, steel
2. Distinguish load-bearing walls vs. non-load bearing masonry walls

**Unit #3**

**Materials Covered:**

Unit III

Chapter 22: Exterior and interior finishing in wood frame buildings

Chapter 25: Thermal insulation

Chapter 28: Roofing systems

Chapter 30: Window, Entrances and Storefronts

Chapter 31: Cladding systems

**\*Assessment(s):** Unit III Test and chapter assignments

**Learning Outcomes:**

1. Describe the various types of roof system assemblies.
2. Differentiate between a single-ply and built-up membrane roofing systems.
3. Explain how doors, windows and storefront entrances are utilized.
4. Identify the components of an exterior building cladding system.

***\*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 3 total	50%
Assignments	30%
Project	<u>20%</u>
	100%

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

## **GRADING SYSTEM:**

Grading system is in accordance to the college catalog.

A= 90-100

B= 80-89

C= 70-79

D= 60-69

F= 0-59

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 ([ACADEMIC CALENDAR](#)). 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.

## **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.

### ***Attendance for Face-to-Face Courses:***

***For a 14 week course (fall and spring) the allowed number of absences for a MW or TR class is as follows: 5 absences are allowed regardless of reason. After the allowed***

*number of misses, the student will be dropped from the course with a W or a WF.*

## Part V: Student Resources



### The Student Success and Tutoring Center (SSTC)

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

- 1. Academic coaches** for most subject areas, **Writing Center Support**, and **college success skills**.
- 2. On-line student success and academic support resources.**

Visit the SSTC website: [Student Success & Tutoring Center](#) and visit the student services tab in your WaveNet account to schedule appointments using TutorTrac. For more information, 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 any time.

### TECH Central – Student Information Center



TECH Central provides quality enrollment and collegiate guidance for students, faculty, and staff. Services include phone, walk-in, and online technical support for technology training and troubleshooting. Additionally, we offer support in Office 365, Outlook E-mail setup, and ID cards.

**Phone:** 843-349-5340

**Email:** [techcentral@hgtc.edu](mailto:techcentral@hgtc.edu)

**Text:** 843-357-8552

**TECH Talk (Live Chat):** Located on the "Home" tab in WaveNet.

**Website:** [www.hgtc.edu/techcentral](http://www.hgtc.edu/techcentral)

#### **Locations:**

Conway Building 1100, Room 132D

Grand Strand Building 200, Room 136

#### **Disability Services:**

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to Beth Havens, Director of Student Development on the Conway Campus Jaime Davis,

Counselor/Advisor on the Georgetown Campus or Kristin Griffin, Counselor on the Grand Strand Campus. These individuals 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.

Inquiries regarding the non-discrimination policies: Students 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](mailto: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, Section 504, Title II, and Title IX Coordinator, Building 200, Room 212A, Conway Campus, PO Box 261966, Conway, SC 29528-6066, 843-349-5212, [Jacquelyne.Snyder@hgtc.edu](mailto:Jacquelyne.Snyder@hgtc.edu).

### **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).

<b>Inquiries regarding the non-discrimination policies:</b>	
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.	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.

<p><b>Dr. Melissa Batten, VP Student Affairs</b> <i>Title IX Coordinator</i></p> <p>Building 1100, Room 107A, Conway Campus PO Box 261966, Conway, SC 29528- 6066 843-349-5228 <a href="mailto:Melissa.Batten@hgtc.edu">Melissa.Batten@hgtc.edu</a></p>	<p><b>Jacquelyne Snyder, VP Human Resources</b> <i>Section 504, Title II, and Title IX Coordinator</i></p> <p>Building 200, Room 212A, Conway Campus PO Box 261966, Conway, SC 29528- 6066 843-349-5212 <a href="mailto:Jacquelyne.Snyder@hgtc.edu">Jacquelyne.Snyder@hgtc.edu</a></p>
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