



# INSTRUCTIONAL PACKAGE

AET 101

Building Systems I

Effective Term  
Spring/2019

# INSTRUCTIONAL PACKAGE

## PART I: COURSE INFORMATION

Effective Term: 2018.20

COURSE PREFIX: AET 101

COURSE TITLE: Building Systems I

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:

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.

### STUDENT IDENTIFICATION VERIFICATION

Students enrolled in online courses will be required to participate in a minimum of one (1) proctored assignment and/or one (1) virtual event to support student identification verification. Please refer to your Instructor Information Sheet for information regarding this requirement.

## **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\***

Assignments	40%
Tests	60%
	<hr/>
	100%

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

#### **GRADING SYSTEM:**

Please note the College adheres to a 10 point grading scale A = 100 – 90, B = 89- 80, C = 79 – 70, D = 69 – 60, F = 59 and below.

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.

## Part IV: Attendance

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of eighty percent (80%) of his or her classes in order to be eligible to receive credit for any course. However, due to the varied nature of courses taught at the College, a more rigid attendance policy may be required by individual instructors. At a minimum, a student may be withdrawn from a course(s) after he or she has been absent in excess of ten percent (10%) of the total contact hours for a course. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

**For online and hybrid courses**, check your Instructor's Course Information Sheet for any required on-site meeting times. Please note, instructors may require tests to be taken at approved testing sites, if you use a testing center other than those provided by HGTC, the center may charge a fee for its services.

## Part V: Student Resources

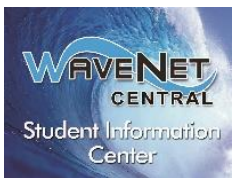


### The Student Success and Tutoring Center (SSTC)

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. Room locations and Live Chat is available on the SSTC website.



### Student Information Center: WaveNet Central (WNC)

WNC offers to all students the following **free** resources:

1. **Getting around HGTC**: General information and guidance for enrollment!
2. Use the **Online Resource Center (ORC)** for COMPASS support, technology education, and online tools.
3. **Drop-in technology support or scheduled training** in the Center or in class.
4. **In-person workshops, online tutorials and more services** are available.

Visit the WNC website: [Wavenet Central](#). Live Chat and Center locations are posted on the website. Or please call one of the following locations: WNC Conway, 349-5182; WNC Grand Strand, 477-2076; and WNC Georgetown, 520-1473.

## 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 March 2018

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, gender, national or ethnic origin, age, religion, disability, marital status, veteran status, sexual orientation, gender identity, or pregnancy in educational programs and/or activities.

**Title IX Requirements**

Horry Georgetown Technical College prohibits the offenses of domestic violence, dating violence, sexual assault, and stalking. Any student who believe he or she has experienced or witnessed discrimination including sexual harassment, domestic violence, dating violence, sexual assault or stalking is encouraged to report such incidents to one of the College’s Title IX Coordinators.

\*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 Associate 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 Associate Vice President for Human Resources.
<b>Dr. Melissa Batten, AVP Student Affairs</b> <i>Title IX Coordinator</i>	<b>Jacquelyne Snyder, AVP Human Resources</b> <i>Section 504, Title II, and Title IX Coordinator</i>
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>	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>