



# INSTRUCTIONAL PACKAGE

EGR 286

Engineering Surveying II

Effective Term  
Summer/2018

# INSTRUCTIONAL PACKAGE

## PART I: COURSE INFORMATION

Effective Term: 2017-2018

COURSE PREFIX: EGR 286

COURSE TITLE: Engineering Surveying II

CONTACT HOURS: 3.0

CREDIT HOURS: 3.0

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

This course is a continuation of an earlier coursework (EGR 285, Engineering Surveying I) and designed to provide the student with an in depth knowledge of practices and application of surveying. The course includes the study of more advanced topics in surveying, including horizontal highway curve geometry (simple, complex and spiral) & vertical curve geometry and State Plane Coordinate Systems. Legal aspects of surveying and background and rules of proper plat preparation are also covered. The lab for this course (EGR 296) must be taken concurrently.

### **COURSE DESCRIPTION:**

This course covers land surveying and boundary laws, public land surveys, topographic mapping, horizontal and vertical curves, lot calculations, and engineering astronomy.

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

(Credit level EGR 285 Minimum Grade of C or Credit level EGR 285 Minimum Grade of TC) and (Credit level EGR 295 Minimum Grade of C or Credit level EGR 295 Minimum Grade of TC) and (Credit level EGR 296 Minimum Grade of C or Credit level EGR 296 Minimum Grade of TC)

### **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:**

Engineering Calculator / Engineer Calculation Pads

### **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.

## Part II: Student Learning Outcomes

### COURSE LEARNING OUTCOMES and ASSESSMENTS\*:

Be able to compute components of a simple horizontal curve (i.e. PC, PI, PT, E, M, L, LC and Delta).

Be able to compute station locations of various types of horizontal curves based on given design data.

Be able to demonstrate how some surveying related products are used to help solve engineering problems.

Be able to recognize the essential professional and ethical responsibilities of a land surveyor as well as the existence of Standards of Practice for Land Surveying in SC.

Be able to identify the use of compound, reverse and spiral curves.

Be able to recognize the legal aspects of land surveying as well as the Public Land Surveying System, while demonstrating the ability to communicate surveying information in a written format.

Be able to recognize construction field control techniques.

Be able to understand the use of the South Carolina Coordinate System including relevant facts.

Be able to compute components of a typical vertical curve.

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

## Part III: Grading and Assessment

### REQUIRED COURSE MEASURES/ARTIFACTS\*

Written Exams / Homework Assignments

### EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS\*

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

#### EVALUATION\*

|                                |            |
|--------------------------------|------------|
| Exams (3 @ Equal Weight) ..... | 50%        |
| Final Exam .....               | 25%        |
| Homework .....                 | <u>25%</u> |
|                                | 100%       |

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

## GRADING SYSTEM:

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.

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