INSTRUCTIONAL PACKAGE

TUF 252

Turf Management II

Effective Term
Fall 2023/Spring 2024/Summer 2024

INSTRUCTIONAL PACKAGE

Part I: Course Information

Effective Term: <u>Fall 2023/Spring 2024/Summer 2024</u>

COURSE PREFIX: TUF 252　　　　　COURSE TITLE:　Turf Management II

CONTACT HOURS:　5.0　　　　　　CREDIT HOURS:　3.0

RATIONALE FOR THE COURSE:

This course contains the knowledge necessary to prepare a student to become and succeed as a Golf Course Superintendent, Athletic Field Manager or Grounds Manager.

COURSE DESCRIPTION:

This course is an in-depth analysis of common management practices on turf with emphasis on scientific resources.

PREREQUISITES/CO-REQUISITES:

TUF 172

***Online/Hybrid** courses require students to complete the [DLi Orientation Video](#) prior to enrolling in an online course.

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.

ADDITIONAL REQUIREMENTS:

None

TECHNICAL REQUIREMENTS:

Access to Desire2Learn (D2L), HGTC's learning management system (LMS) used for course materials.
Access to myHGTC portal for student self-services.
College email access – this is the college's primary official form of communication.

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.

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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. No vaping in class.

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- Pesticides, Wetting Agents and developing chemical programs
1. Fungicides active ingredients, classes, and usage
2. Herbicides active ingredient, classes, and usage
3. Insecticides active ingredient, classes, and usage
4. Wetting Agents ingredients, classes, and usage
5. Developing chemical programs

Unit 2 -Use of Plant Growth Regulators and Biostimulants in Turf
1. List and describe the functions of the five types of plant hormones.
2. Define Type I and Type II PGR's and give examples of commercially available products of each type and their use.
3. Define and give examples of biostimulants. Understand their use in fertility programs.

Unit 3 - Overseeding of Turf
1. Define the following terms: mixture, blend, germination, and purity.
2. Calculate pure live seed and seeding rates.
3. Name species and rates of cool season grasses used for overseeding.
4. Describe overseeing processes, including pre/post management practices.
5. Name factors that affect spring transition.
6. Describe the advantages of fungicide-treated seed and endophyte-enhanced seed.
7. Develop an overseeding program for a golf course or athletic field.

Unit 4- Fertilizers and Fertilizer Programs
1. Name the macronutrients and micronutrients required by plants.
2. Define the following terms: analysis, grade, and ratio.
3. Interpret the information on a fertilizer label
4. Name the functions of nitrogen, phosphorus, and potassium in plants.
5. Name sources of phosphorus and potassium fertilizers.

6. Calculate amounts of fertilizer to apply to turf.
7. Discuss fertigation.
8. Describe environmental concerns associated with over applications of fertilizer.
9. Discuss IPM and the Audubon Certification

Unit 6- Supplementary Cultural Practices
1. Describe the detrimental effects of compaction on growth of turf.
2. Define thatch and explain its undesirable and desirable effects on turf quality.
3. Define and explain the reasons for employing various methods of cultivation, including coring, slicing, spiking, and vertical mowing.
4. Explain why rolling, topdressing, and matting are used in turf management.
5. Turf Colorants—uses and types in turf management.
6. Identify equipment used for cultural practices.

Unit 7- Basics of Meteorology
1. What makes the Weather?
2. Precipitation
3. Storms
4. Forecasting
5. Weather Data and record keeping.
6. Weather maps

Unit 8- Communications 101 for turfgrass managers
1. Explain the importance of communications between the golf course superintendent, the pro shop, vendors/contractors, and the members/golfers when the above-mentioned practices are scheduled on the golf course.
2. Proper use of written, electronic, and verbal communication in turfgrass management.
3. Social Media Usage
4. Email

Module #1
Materials Covered: Unit 1 **Fungicides**
*Assessment(s):   Lab activity.

Learning Outcomes:
1. Describe different modes of actions of Fungicides.
2. Explain difference contact and systemic fungicides
3. Understand the timing of fungicide applications

Module #3
Materials Covered: Fertilizer
*Assessment(s): Lab activity.
Learning Outcomes:
1. Interpret a soils report.
2. Determine what type of fertilizer should be applied based on a soils test.
3. Calculate the amount of fertilizer to be applied to given

REQUIRED COURSE MEASURES/ARTIFACTS

- Tests and Quizzes
- Assignments
- Projects
- Group projects
- Presentations

*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/Quizzes	30%
Assignments/Projects/Presentations	30%
Class and Lab Participation	30%
Final Exam	10%
	100%

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

GRADING SYSTEM:

State the College's or departmental grading system as delineated in the Catalog. 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. You must have your Dean's approval if changes in the scale are made.

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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.**

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, and 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 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 sstc@hgtc.edu or self-schedule in the Penji iOS/Android app or at www.penjiapp.com. Email sstc@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 <u>free</u> 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.

HGTC LIBRARY:

Each campus location has a library where HGTC students, faculty, and staff may check out materials with their HGTC ID. All three HGTC campus libraries are equipped with computers to support academic research and related school work; printing is available as well. Visit the [Library](#) website for more information or call (843) 349-5268.

STUDENT TESTING:

Testing in an **online/hybrid** course and in **make-up exam** situations may be accomplished in a variety of ways:

- Test administered within D2L
- Test administered in writing on paper
- Test administered through Publisher Platforms (which may have a fee associated with the usage)

Furthermore, tests may have time limits and/or require a proctor.

Proctoring can be accomplished either face-to-face at an approved site or online through our online proctoring service. To find out more about proctoring services, please visit the [Online Testing](#) section of the HGTC's Testing Center webpage.

The **Instructor Information Sheet** will have more details on test requirements for your course.

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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, Title VII, 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, Section 504, and Title II 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.

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Jacquelyne Snyder, VP Human Resources
Affirmative Action/Equal Opportunity Officer and Title IX Coordinator
Building 200, Room 205B, Conway Campus
PO Box 261966, Conway, SC 29528-6066
843-349-5212
Jacquelyne.Snyder@hgtc.edu