

## **Turfgrass Management**

11:776:304 (4 credits)  
Fall Semester (odd years)

### **CONTACT INFORMATION**

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### **COURSE DESCRIPTION**

This introductory turfgrass management course is strongly suggested for those seeking career opportunities in the science and management of turf landscapes including lawns, gardens, parks, roadsides, cemeteries, athletic fields, golf courses, etc. as well as the commercial supplies industry associated with turf and landscape management. The course introduces students to the identification and management of grasses used for turf. The course uses lecture, hands-on field laboratory experience, and field trips to teach principles of turf establishment, renovation, and management. Emphasis is placed on genetic, cultural, physical, biological, and regulatory approaches to turf management rather than a chemical approach

### **COURSE WEBSITE, RESOURCES AND MATERIALS**

- Course website: Canvas
- Required textbooks: Turfgrass Management, 9<sup>th</sup> – A.J. Turgeon. ISBN-13: 978-0-13-707435-8

### **PREREQUISITES**

11:776:242 Plant Science. Students will benefit by taking introductory soil, water, and plant science classes.

### **COURSE LEARNING GOALS (link to Plant Biology Undergraduate Program Goals: (<http://plantbiology.rutgers.edu/undergrad/plantbiology/>)**

By the end of this course, the student will be able to:

1. Identify the major species of cool-season and warm-season turfgrasses used in managed landscapes and where to use them (addresses program goal 1)

2. Describe the major cultural practices of mowing, irrigation and fertilization for turfgrasses, and the supplementary cultural practices of cultivation, topdressing, rolling, use of wetting agents and use of plant growth regulators (addresses program goal 1)
3. Discuss methods for the identification and proper control of turfgrass diseases, insects and weeds (addresses program goals 1 to 3)
4. Describe cultural management systems for golf courses, sports fields, lawns, and other managed turfgrass landscapes (addresses program goals 1 and 2)

## ASSIGNMENTS/RESPONSIBILITIES & ASSESSMENT

### Grading:

- Attendance 10%
- Lecture
  - Mid-term exams (2) 30%
  - Final exam (comprehensive) 20%
  - Assignments 10%
- Laboratory
  - Assignments 10%
  - Practical exam 20%
- Scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D

**Written assignments:** Questions at the end of each chapter in the textbook will be assigned prior to lecture to encourage students to read the material before class.

**Laboratory:** The laboratory sections meets once a week in the Geiger classroom building at Horticultural Research Farm II. The laboratory will be a combination of hands-on laboratory exercises, field trips, and guest lectures. Additional written assignments include turfgrass identification worksheets and fertilizer and chemical calibration problems. All field trips will depart from this location.

**Learning goals assessment:** Student attainment of all course learning goals will be assessed through classroom discussions, exams and assignments. In addition, the lab practicum will test student turfgrass identification skills (course learning goal 1). The percentage score on these assessments will determine the level of mastery: >90% outstanding; 80-89% good; 70-79% satisfactory; <69% unsatisfactory.

## PARTICIPATION GRADE AND ABSENCE POLICY

Attendance is mandatory and discussion in class is expected. More than two unexcused absences will result in a 5% reduction in grade. Students unable to attend may contact the instructor via e-mail prior to the missed class or may use the University absence reporting website (<https://sims.rutgers.edu/ssra/>) to indicate the date and reason for the absence. An e-mail is automatically sent to the instructor.

## COURSE TOPICS

Week	Topic
1	Introduction to turf management
	Growth and development
2	Growth and development (cont.)
	Cool season turfgrasses
3	Cool season turfgrasses (cont.)
4	Warm season turfgrasses
	Propagation
5	<b>Exam I</b>
	Turfgrass environment
6	Turfgrass environment
	Turfgrass soil physical properties
7	Sand-based construction
	Turfgrass soil chemistry
8	Turfgrass soil chemistry (cont.)
	Turfgrass nutrition
9	Turfgrass nutrition (cont.)
	Mowing
10	Irrigation
	<b>Exam I</b>
11	Cultivation practices
	Turfgrass weeds
12	Turfgrass diseases
13	Turfgrass insects
	<b>Thanksgiving recess</b>
14	Cultivation
	Supplementary cultural practices
15	Principles of turfgrass IPM
	<b>Final Exam (to be determined)</b>

## FINAL EXAM/PAPER DATE AND TIME

The Online Final exam Schedule: <http://finalexams.rutgers.edu/>

## ACCOMODATIONS FOR STUDENTS WITH DISABILITIES

Please follow the procedures outlined at <https://ods.rutgers.edu/students/registration-form>. Full policies and procedures are at <https://ods.rutgers.edu/>

## ACADEMIC INTEGRITY

The university's policy on Academic Integrity is available at <http://academicintegrity.rutgers.edu/>

The principles of academic integrity require that a student:

- Properly acknowledge and cite all use of the ideas, results, or words of others.
- Properly acknowledge all contributors to a given piece of work.

- Make sure that all work submitted as his or her own in a course or other academic activity is produced without the aid of impermissible materials or impermissible collaboration.
- Obtain all data or results by ethical means and report them accurately without suppressing any results inconsistent with his or her interpretation or conclusions.
- Treat all other students in an ethical manner, respecting their integrity and right to pursue their educational goals without interference. This requires that a student neither facilitate academic dishonesty by others nor obstruct their academic progress.
- Uphold the canons of the ethical or professional code of the profession for which he or she is preparing.

Adherence to these principles is necessary in order to ensure that:

- Everyone is given proper credit for his or her ideas, words, results, and other scholarly accomplishments.
- All student work is fairly evaluated and no student has an inappropriate advantage over others.
- The academic and ethical development of all students is fostered.
- The reputation of the University for integrity in its teaching, research, and scholarship is maintained and enhanced.

Failure to uphold these principles of academic integrity threatens both the reputation of the University and the value of the degrees awarded to its students. Every member of the University community therefore bears a responsibility for ensuring that the highest standards of academic integrity are upheld.

## **STUDENT WELLNESS SERVICES**

**Just In Case Web App** <http://codu.co/cee05e>

Access helpful mental health information and resources for yourself or a friend in a mental health crisis on your smartphone or tablet and easily contact CAPS or RUPD.

### **Counseling, ADAP & Psychiatric Services (CAPS)**

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901 / [www.rhscaps.rutgers.edu/](http://www.rhscaps.rutgers.edu/)

CAPS is a University mental health support service that includes counseling, alcohol and other drug assistance, and psychiatric services staffed by a team of professional within Rutgers Health services to support students' efforts to succeed at Rutgers University. CAPS offers a variety of services that include: individual therapy, group therapy and workshops, crisis intervention, referral to specialists in the community and consultation and collaboration with campus partners.

### **Violence Prevention & Victim Assistance (VPVA)**

(848) 932-1181 / 3 Bartlett Street, New Brunswick, NJ 08901 / [www.vpva.rutgers.edu/](http://www.vpva.rutgers.edu/)

The Office for Violence Prevention and Victim Assistance provides confidential crisis intervention, counseling and advocacy for victims of sexual and relationship violence and stalking to students, staff and faculty. To reach staff during office hours when the university is open or to reach an advocate after hours, call 848-932-1181.

### **Disability Services**

(848) 445-6800 / Lucy Stone Hall, Suite A145, Livingston Campus, 54 Joyce Kilmer Avenue, Piscataway, NJ 08854 / <https://ods.rutgers.edu/>

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and

provide documentation: <https://ods.rutgers.edu/students/documentation-guidelines>. If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. To begin this process, please complete the Registration form on the ODS web site at: <https://ods.rutgers.edu/students/registration-form>.

**Scarlet Listeners**

(732) 247-5555 / <http://www.scarletlisteners.com/>

Free and confidential peer counseling and referral hotline, providing a comforting and supportive safe space.