

CROP SCI 301 TURFGRASS CULTURE
Syllabus Course Information
Fall 2016

Crop Science 301
UI (PSCS 301)

3-credit course (two 75 minute lectures – one 3 hr. 45 min. lab)

NOTE: DUE TO DR. JOHNSTON'S RETIRMENT
COURSE WAS TAUGHT IN AN ACCELEATED
FORMAT

Professor: Dr. William Johnston
219 Johnson Hall
509-335-3620
wjohnston@wsu.edu

Text: Fundamentals of Turfgrass Management, 4th edition, 2011, author Nick Christians; available at WSU bookstore at the CUB or on-line.

General Scope and Rationale: This course is designed to relate to the student major features of the turfgrass ecosystem, interactions between ecosystem components, and the principles of establishment and management of turf for lawns, play fields, parks, cemeteries, and golf courses. The course will emphasize turfgrass management in the Pacific Northwest. The goal is to present material in a straightforward way that can be easily understood so the students can utilize and adapt what they have learned to turfgrass management later in their career or life. The course method of delivery will be by classroom lecture, outdoor and indoor laboratory exercises and demonstrations, and a mandatory field trip to several sites in Eastern Washington and/or North Idaho.

Student Learning Outcomes: The student will:

1. Understand the role of turfgrass in the landscape and the history of turfgrass culture and research.
2. Identify the characteristics of the major warm- and cool-season turfgrasses.
3. Understand the basic cultural practices and relate them to turfgrass management.
4. Identify "Why" certain management practices are performed.
5. Identify problems encountered in turfgrass management and develop correction options.

Grading: Course grades will be computed on a basis of 600 total points with the following breakdown (additional points may be added at the discretion of the instructor):

3 one-hour lecture exams	@ 100 points = 300 points	
1 final lecture exam	@ 100 points = 100 points	
2 laboratory exams	@ 100 points = 200 points	
A = 93% and above	B- = 80-82%	D+ = 67-69%
A- = 90-92%	C+ = 77-79%	D = 60-66%
B+ = 87-89%	C = 73-76%	F = below 60%
B = 83-86%	C- = 70-72%	

Idaho students: A = 90% and above; B = 80-89%; C = 70-79%; D = 60-69%; and F + below 60%.

No curving of grades will be done. Missed exams may be made up at the discretion of the instructor, provided a "valid" reason is presented. All exams will include essay/discussion type questions and specific objective questions covering lecture and assigned reading materials. Old (past few years) lecture and laboratory exams will be posted on-line.

Field Trip: A mandatory all-day field trip is scheduled for **Tuesday September 27**.

Attendance Policy: Attendance is highly recommended at lecture and lab and is mandatory for the field trip and all designated discussion periods.

WSU Reasonable Accommodations Statement: Students with Disabilities: Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (Washington Building 217; 509-335-3417) to schedule an appointment with an Access Advisor. All accommodations MUST be approved through the Access Center. For more information contact a Disability Specialist on your home campus: **Pullman or WSU Online:** <http://accesscenter.wsu.edu>, Access.Center@wsu.edu

Academic Integrity: Academic integrity is the cornerstone of the university. You assume full responsibility for the content and integrity of the academic work you submit. You may collaborate with classmates on assignments, with the instructor's permission. However the guiding principle of academic integrity shall be that your submitted work, examinations, reports, and projects must be your own work. Any student who violates the University's standard of conduct relating to academic integrity will be referred to the Office of Student Conduct and may fail the assignment or the course. You can learn more about Academic Integrity on your campus using the URL listed in the Academic Regulations section or to <http://conduct.wsu.edu/academic-integrity-policies-and-resources>. Please use these resources to ensure that you don't inadvertently violate WSU's standard of conduct.

Violation of copyright laws and the intellectual property rights of others is prohibited. Prohibited acts include, but are not limited to:

1. Posting the works of another person on an internet website without the permission of the creator;
2. Copying the creative works of another without the permission of the creator;
3. Selling a recording of a presentation by another without the permission of the presenter;
4. Claiming the works of another as one's own;
5. Using the copyrighted works or intellectual property of another for profit without the permission of the owner;
6. Copying or digitally transmitting video or audio files without the permission of the owner; or displaying a copyrighted work publicly without the permission of the owner.

Safety and Emergency Notification: Pullman: Washington State University is committed to enhancing the safety of the students, faculty, staff, and visitors. It is highly recommended that you review the Campus Safety Plan (<http://safetyplan.wsu.edu/>) and visit the Office of Emergency Management web site (<http://oem.wsu.edu/>) for a comprehensive listing of university policies, procedures, statistics, and information related to campus safety, emergency management, and the health and welfare of the campus community.

**Crop Science 301
Lecture Outline:**

Turfgrass Culture

Fall 2016

Lecture
Tuesday and Thursday
10:35 AM– 11:2550 AM
204 Johnson Hall

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335-3620 (office)
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Lecture No.	Text Chapter	Topic
1	1	Introduction to turfgrass culture and scope of the industry
2	2	Botanical characteristics of turfgrasses
3		Turfgrass regions of the U.S.
4-6	3	Cool-season turfgrass species characteristics
7		EXAM 1 September 13
8-10	4	Warm-season turfgrass species characteristics
11		Field Trip September 27
12	6	Turfgrass environment and turfgrass establishment
13		Modified turfgrass rootzones
14		EXAM 2 October 6
15	7, 8	Soil testing and fertilization
16	9	Mowing
17	10	Irrigation
18		Environmental problems
19		Cultural problems and turfgrass renovations
20		EXAM 3 October 27

FINAL EXAM Thursday November 3; 10:35 AM – 11:50 AM

Text: Fundamentals of Turfgrass Management, 4th edition, 2011, author Nick Christians.

**Crop Science 301
Laboratory Outline:**

Turfgrass Culture

Fall 2016

Tuesday 12:15 to 4:00 PM
272 Johnson Hall
WSU Turf Center (Turf Plots)
Palouse Ridge Golf Course
Etc.

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Date	Topic
Aug. 23	Turfgrass and Agronomy Research Center visit (WSU Turf Plots)
Aug. 30	Turfgrass equipment (Palouse Ridge Golf Club)
Sept. 6	Calibration and Irrigation (WSU Turf Plots)
Sept. 13	Turfgrass seed and vegetative identification
Sept. 20	Exam 1
Sept. 27	Field Trip
Oct. 4	Weed identification and control
Oct. 11	Disease identification and control
Oct. 18	Insect identification and control
Oct. 25	Exam 2

Note: Laboratory schedule may change due to weather conditions and guest speaker availability.

Field Trip is part of laboratory grade.

2016/Laboratory Outline 2016