Proposal Form For Addition And Revision Of Courses

1. Proposing College / School: Agriculture
   Department: Agronomy and Soils

2. Course Prefix and Number: AGRN 5163/6166
   3. Effective Term: SP 2013

4. Course Title:
   Advanced Turfgrass Management
   Abbreviated Title (30 characters or less): Advanced Turfgrass Management

5. Requested Action:
   - ☐ Renumber a Course
   - ☐ Add a Course
   - ☐ Revise a Course
   - Current Course Number:
   - Proposed Course Number:
   - Type of Revision:

6. Course Credit:
   Contact/Group Hours: 3
   Scheduled Type (e.g.: Lab, Lecture, Practicum, Directed Study):
   - Lecture - Distance Ed
   Weekly or Per Term?: Weekly
   Credit Hours: 3
   Anticipated Enrollment: 20
   Maximum Hours (Repeatability): 3
   Total Credit Hours: 3

7. Grading Type:
   - ☐ Regular (ABCDF)
   - ☐ Satisfactory/Unsatisfactory (S/U)
   - ☐ Audit

8. Prerequisites/Corequisites:
   AGRN 3150/3153 Turfgrass Management
   Use "P:" to indicate a prerequisite, "C:" to indicate a corequisite, and "P/C:" to indicate a prerequisite with concurrency.

9. Restrictions:
   List specific restriction in space above.
   - ☐ College
   - ☐ Major
   - ☐ Standing
   - ☐ Degree

10. Course Description:
    (20 Words or Less; exactly as it should appear in the Bulletin)
    This course covers in-depth turfgrass establishment, culture and care with emphasis on factors affecting the turfgrass plant as a component of a dynamic community.

11. May Count Either:
    (Indicate if this particular course cannot be counted for credit in addition to another)
    Program Type (e.g.: minor, major, etc.)
    Program Title (e.g.: MS in Chemistry, Performance Option, Minor in Art)
    Requirement or Elective?
    Major | BS/MS and PhD in Agronomy | Elective
    MS in Soil, Water & Environmental Science | Elective

12. Affected Program(s):
    (Respond "N/A" if not included in any program; attach memorandum if more space is required)
    ☐ Major
    ☐ BS/MS and PhD in Agronomy
    ☐ MS in Soil, Water & Environmental Science
    ☐ Elective

13. Overlapping or Duplication of Other Units' Offerings:
    (If course is included in any other degree program, is used as an elective frequently by other unit(s), or is in an area similar to that covered by another college/school, attach correspondence with relevant unit)
    ☐ Applicable
    ☐ Not Applicable
14. Justification:

An online version of AGRN 5163/6166 is needed to expand the general Agronomy and Soils teaching online and provides a graduate level course in a specialty area. Additionally, this class will provide educational opportunities for non-traditional students. This course will be a required course in a newly proposed Masters in Turfgrass Management.

(Include a concise, yet adequate rationale for the addition/revision of the course, citing accreditation, assessments (faculty, graduate, and/or external) where applicable)

15. Resources:

The primary resource for the online version of this course will be the LMS Canvas. Course materials and recorded lectures will be made available.

(Indicate whether existing resources such as library materials, classroom/lab space, and faculty appointments are adequate to support the proposed addition/revision; if additional resources are required, indicate how such needs will be met, referencing the appropriate level of authorization -- i.e.: Dean -- where necessary; if no additional resources or shifting of resources will be necessary, respond "Not Applicable")

16. Student Learning Outcomes:

Students will learn:

- How turfgrasses respond to cultural practices and inputs, and how to use these to produce the best environment for turfgrass growth
- Nutrient and pest management options with an emphasis on integrated and sustainable management
- Methods for designing and building specialty turf areas (especially golf putting greens and athletic fields)
- Special maintenance concerns relating to athletic fields, golf courses and sod production
- (AGRN 6166 only) Graduate students will develop an understanding of the current state of research in turfgrass management by writing a literature review term paper.

(State in measurable terms (reflective of course level) what students should be able to do when they have completed this course)

17. Course Content Outline:

Week Event Topics

1 Introduction, review of basic turfgrass principles
Selection of turfgrasses for specific applications

2 Quiz Growing grass in sand – how and why? Advantages and disadvantages of sand vs native soil
Sand based fields and greens - choosing a soil mix & construction

3 Quiz Sand based fields and greens - establishment and grow-in
Native soil fields, fairways and greens - site preparation and soil amendments

4 Quiz Integrated Pest Management - Introduction & concepts
Weeds of turfgrass - Life cycles, identification, biology

5 Exam 1 Weeds - Herbicides

6 Quiz Weeds - Cultural and biological control
Diseases of turfgrass - Disease cycles, diagnosis and pathogen biology

7 Quiz
Diseases - Disease cycles, diagnosis and pathogen biology continued

8 Quiz Diseases - Cultural and biological control
Diseases – Fungicides

9 Quiz Insects of turfgrass - Life cycles, identification, biology

10 Exam 2 Insects - biological and cultural control
18. Assignments / Projects:

For AGRN 5163 students, the course will be graded on a 500 point scale as follows:

- Three exams worth 100 points each (two midterms and a final). The final is not cumulative. Total: 300 points
- Ten online quizzes worth 25 points each. You may drop your two lowest quiz scores. Total: 200 points

For AGRN 6166 students, the course will be graded on a 600 point scale as follows:

- Three exams worth 100 points each (two midterms and a final). The final is not cumulative. Total: 300 points
- Ten online quizzes worth 25 points each. You may drop your two lowest quiz scores. Total: 200 points
- Term paper: 100 points

(List all quizzes, projects, reports, activities and other components of the course grade -- including a brief description of each assignment that clarifies its contribution to the course's learning objectives)

19. Rubric and Grading Scale:

Grading Scale:

A: 100% - 90%
B: 89% - 80%
C: 79% - 70%
D: 69% - 60%
F: <60%

For AGRN 5163 students, the course will be graded on a 500 point scale as follows:

- Three exams worth 100 points each (two midterms and a final). The final is not cumulative. Total: 300 points
- Ten online quizzes worth 25 points each. You may drop your two lowest quiz scores. Total: 200 points

For AGRN 6166 students, the course will be graded on a 600 point scale as follows:
as follows:

- Three exams worth 100 points each (two midterms and a final). The final is not cumulative. Total: 300 points
- Ten online quizzes worth 25 points each. You may drop your two lowest quiz scores. Total: 200 points
- Term paper: 100 points

(List all components of the course grade -- including attendance and/or participation if relevant -- with point totals for each; indicate point totals and ranges or percentages for grading scale; for S/U grading, detail performance expectations for a passing grade)

20. Justification for Graduate Credit: This is an advanced course in turfgrass management. It is structured as a master’s level course and is a common course in graduate programs in agronomy and soils. Students taking this course for graduate credit will complete a term paper in the form of a research review on a topic of their choice related to turfgrass management published in the primary literature to develop a higher level of critical/analytical thinking skills. The topic of the term paper must be approved by the instructor by the second week of the course.

(Include a brief statement explaining how the course meets graduate educational standards (i.e.: rigorous standards for evaluation, development of critical thinking and analytical skills, etc.))

(Included below are standard statements regarding course policies. If necessary, a statement may be altered to reflect the academic policies of individual faculty members and/or the academic unit or department, provided that there is no conflict with the Tiger Cub, Faculty Handbook, or any existing university policy.)

POLICY STATEMENTS

Attendance: Although attendance is not required, students are expected to attend all classes, and will be held responsible for any content covered in the event of an absence.

Excused Absences: Students are granted excused absences from class for the following reasons: illness of the student or serious illness of a member of the student's immediate family, the death of a member of the student's immediate family, trips for student organizations sponsored by an academic unit, trips for university classes, trips for participation in intercollegiate athletic events, subpoena for a court appearance, and religious holidays. Students who wish to have an excused absence from class for any other reason must contact the instructor in advance of the absence to request permission. The instructor will weigh the merits of the request, and render a decision. When feasible, the student must notify the instructor prior to the occurrence of any excused absences, but in no case shall such notification occur more than one week after the absence. Appropriate documentation for all excused absences is required. Please see the Tiger Cub for more information on excused absences.

Make-Up Policy: Arrangement to make up a missed major examination (e.g. hour exams, mid-term exams) due to properly authorized excused absences must be initiated by the student within one week of the end of the period of the excused absence(s). Except in unusual circumstances, such as the continued absence of the student or the advent of university holidays, a make-up exam will take place within two weeks of the date that the student initiates arrangements for it. Except in extraordinary circumstances, no make-up exams will be arranged during the last three days before the final exam period begins.

Academic Honesty Policy: All portions of the Auburn University student academic honesty code (Title XII) found in the Tiger Cub will apply to university courses. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee.

Disability Accommodations: Students who need special accommodations in class, as provided by the Americans With Disabilities Act, should arrange for a confidential meeting with the instructor during office hours in the first week of classes (or as soon as possible if accommodations are needed immediately). The student must bring a copy of their Accommodation Letter and an Instructor Verification Form to the meeting. If the student does not have these forms, they should make an appointment with the Program for Students with Disabilities, 1298 Haley Center, 844-2098 (V/TTY).
Supplemental Information For Addition Of Distance Education (DE) Course

1. Proposing College / School: Agriculture
   Department: Agronomy and Soils

2. Course Prefix and Number: AGRN 5163/6166
   3. Effective Term: Fall 2012

4. Course Title: Advanced Turfgrass Management
   Abbreviated Title (30 characters or less): Advanced Turfgrass Management

5. On-Campus Pre/Corequisites:
   (Indicate any applicable pre/corequisites for the on-campus version of the course. Use the space provided below to indicate how they will be adjusted to accommodate DE students.)
   Prerequisite(s): AGRN 3150/3153 Turfgrass Management
   Corequisite(s): 
   Pre/Corequisite(s): 
   DE Adjustment: 

6. Affected Program(s):
   (Respond “N/A” if not included in any program; attach memorandum if more space is required)
   - Program Type: Major
     - Program Title: MS or PhD in Agronomy
     - Requirement or Elective? Elective
     - MS Soil, Water, & Environmental Science

7. Justification for DE Delivery:
   An online version of AGRN 5163/6166 is needed to expand the general Agronomy and Soils teaching online and provide a specialty area at the graduate level. Additionally, this class will provide educational opportunities for non-traditional students. This course will be a required course in a newly proposed Masters in Turfgrass Management.

   (Include a concise, yet adequate rationale for the addition of a distance education version of the course in question (e.g.: accreditation, as part of a proposed distance education program, expansion of opportunity for working professionals/students, etc.)

8. Access to Resources:
   The primary resource for the online version of this course will be the LMS Canvas. Course materials and recorded lectures will be made available.
(Indicate how distance education students will be given access to all necessary academic resources, such as library materials, laboratory facilities, and learning centers.)

9. Course Content Delivery:

Lectures will be available in Panopto and will have PowerPoint handouts available. Students will take weekly quizzes which will be required in order for weekly materials to be released.

(Outline, in specific detail, what adjustments will be made to the existing course in order to accommodate learning via distance education. Include delivery of lecture material, discussion sessions, and submission of assignments/papers, as applicable.)

10. Course Interaction:

The instructor will communicate with students via e-mail and message board, and other methods utilizing a LMS. Appointments/phone calls may also be scheduled.

(Provide specific information regarding the adjustments that will be made to the course, in order to accommodate interaction between the student and instructor and peers via distance education. Include such aspects as office hours, class participation, and -- if applicable -- any time that the student would be required to be on-campus.)

Approvals

[Signatures and dates]

Department Chair / Head

College / School Curriculum Committee

College / School Dean

Dean of the Graduate School (for Graduate Courses)

Assoc. Provost for Undergraduate Studies (for Undergraduate Courses)

Contact Person: [Blank]

Telephone: [Blank]

E-Mail Address: [Blank]

Fax: [Blank]
Methods students will use to interact with the professor:
The students will watch and listen to recorded lectures by professor and guest lecturers. They will be able to communicate with the instructor via email, web conferencing, chat and/or telephone during specified virtual hours.

Prerequisite: AGRN 3150/3153, Turfgrass Management, or equivalent experience (Instructor Approval).

Equipment and Technical Skills:
The following are necessary for this course:

1. A computer with an Internet connection (high speed Internet is recommended)
2. Knowledge of basic computer skills and experience using email and the internet

Registration: Undergraduate students should register for this class under AGRN 5163. If you are a graduate student, you must take AGRN 6166. Although the class meets as one group and the same material is covered for all students, students registered for AGRN 6166 must complete an additional term paper. This paper will take the form of a literature review of published research on a subject of the student’s choice (with instructor’s approval). Please see me during the first two weeks of the class to arrange paper topics. The paper will be due during the last week of classes.

Course Description: This course covers in-depth turfgrass establishment, culture and care with emphasis on factors affecting the turfgrass plant as a component of a dynamic community. Influence of soil chemical and physical conditions, management practices and climate are discussed. Theoretical and practical aspects of turfgrass management practices are discussed along with design and construction of golf courses and other athletic purpose turf areas.

Course Objectives: Students will learn

- How turfgrasses respond to cultural practices and inputs, and how to use these to produce the best environment for turfgrass growth
- Nutrient and pest management options with an emphasis on integrated and sustainable management
- Methods for designing and building specialty turf areas (especially golf putting greens and athletic fields)
- Special maintenance concerns relating to athletic fields, golf courses and sod production
- (AGRN 6166 only) Graduate students will develop an understanding of the current state of research in turfgrass management by writing a literature review term paper.

Grading Scale:
A: 100% - 90%
B: 89% - 80%
C: 79% - 70%
D: 69% - 60%
F: <60%

For AGRN 5163 students, the course will be graded on a 500 point scale as follows:

- Three exams worth 100 points each (two midterms and a final). The final is not cumulative.
Total: 300 points

- Ten online quizzes worth 25 points each. You may drop your two lowest quiz scores. Total: 200 points

For AGRN 6156 students, the course will be graded on a 600 point scales as follows:

- Three exams worth 100 points each (two midterms and a final). The final is not cumulative. Total: 300 points
- Ten online quizzes worth 25 points each. You may drop your two lowest quiz scores. Total: 200 points
- Term paper: 100 points

Attendance Policy:

1. Students are expected to review all lectures and learning modules

2. Failure to complete assignments or to take exams at designated times without an acceptable excuse will result in a zero for that assignment or exam.

3. Excuses for the following reasons should be discussed prior to submission:
   - Illness of the student or serious illness of a member of the student’s immediate family.
   - Death of a member of the student’s immediate family.
   - Subpoena for court appearance.
   - Participation in intercollegiate athletic events (verified by letter from professor, Dean or Athletic Department official).
   - Religious holidays.

4. In the case of illness of the student or serious illness or death of a family member, the student is responsible for arranging makeup of missed exams, assignments, etc. within one week of the end of the period of excused absence. Appropriate documentation will be required.

Exams:

Three exams and several online quizzes will be given. During the first week of the class, you must select a proctor to supervise the exams. Examples of approved proctors are academic administrators in the learner’s locale: school superintendents or principals, academic deans or department heads at colleges, or an independent learning office test supervisor at another college, or an education officer at a military installation. All proposed proctors are verified for appropriateness. If you are on-campus at Auburn, you may use the Distance Learning Testing Center staff at 334-844-3106 or audl@auburn.edu. If you do not take the exams at Auburn, the forms for proctoring are available on the homepage of this course or at:

Students with disabilities: You should schedule a meeting with me as soon as possible so we can discuss your needs. Please bring the appropriate paperwork with you. Students who need special accommodations in class, as provided for by the American Disabilities Act, should arrange a confidential meeting with the instructor during office hours the first week of classes or as soon as possible if accommodations are needed immediately. You must bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have these forms but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Haley Center, 844.2096.

Textbooks: The textbooks are optional. You will not be tested on material from textbooks that is not also covered in lectures. However, if you are planning on becoming a professional turfgrass manager, these textbooks are excellent reference materials.
Books:


Academic Honesty: The Student Academic Honesty Code applies to all students taking classes at Auburn University. The code at https://sites.auburn.edu/admin/universitypolicies/Policies/AcademicHonestyCode.pdf will be followed in any suspected cases of academic misconduct in this class.

Outline of course

<table>
<thead>
<tr>
<th>Week</th>
<th>Event</th>
<th>Topics</th>
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| 1    | Quiz  | Introduction, review of basic turfgrass principles  
      |       | Selection of turfgrasses for specific applications |
| 2    | Quiz  | Growing grass in sand – how and why? Advantages and disadvantages of sand vs native soil  
      |       | Sand based fields and greens - choosing a soil mix & construction |
| 3    | Quiz  | Sand based fields and greens - establishment and grow-in  
      |       | Native soil fields, fairways and greens - site preparation and soil amendments |
| 4    | Quiz  | Integrated Pest Management - Introduction & concepts  
      |       | Weeds of turfgrass - Life cycles, identification, biology |
| 5    | Exam 1| Weeds - Herbicides |
| 6    | Quiz  | Diseases of turfgrass - Disease cycles, diagnosis and pathogen biology |
| 7    | Quiz  | Diseases - Disease cycles, diagnosis and pathogen biology continued |
| 8    | Quiz  | Diseases - Cultural and biological control  
      |       | Diseases – Fungicides |
| 9    | Quiz  | Insects of turfgrass - Life cycles, identification, biology |
| 10   | Exam 2| Insects - biological and cultural control  
      |       | Insects –Insecticides |
| 11   | Quiz  | Insects –Insecticides continued  
      |       | Fertilization - Soil properties, pH, liming, CEC and what they mean |
| 12   | Quiz  | Fertilization - Turfgrass physiology behind our fertilizer recommendations  
      |       | Fertilization - organic fertilizers, biostimulants, etc |
| 13   | Quiz  | Overseeding |
| 14   | Quiz  | Regulatory agencies and issues relevant for turfgrass managers |
| 15   |       | Managing people and a maintenance shop at a professional facility  
      |       | Budgeting for a turfgrass facility |
| 16   | Exam 3| |