

## Approval Chart for Curriculum Changes

A = Approve      I= Information Item<sup>1</sup>      R= Advise & Respond<sup>2</sup>

Course Number ENVR 112 or Degree Plan(s) \_\_\_\_\_

State the requested change and reason. A memo may be attached if more space is necessary.

Current course description: A study of the applied botanical sciences. Special emphasis is placed on the use of plants by man. Plant ecology, physiology, morphology, and reproduction will be discussed in agricultural, economic, and sociological contexts. The influence of environmental factors and emerging technologies on plant growth and development will be discussed. Laboratory graded and credited with course. May be used to satisfy University Requirements. Course fee.

New course description: A study of applied agroecological sciences and sustainable use of plants by man. Focus on plant anatomy, physiology, reproduction, agroecology, environmental growth factors, and emerging agronomic technologies. Laboratory graded and credited with course. May be used to satisfy University Requirements. Course fee.

Please see the attached memo for the old course outcomes and the revised course outcomes.

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

|                    |                                                                                                                   | Dept./School | College Academic | Deans | COUNCIL <sup>3</sup> |      |      |      | Provost | President |
|--------------------|-------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------|----------------------|------|------|------|---------|-----------|
|                    |                                                                                                                   |              |                  |       | TEC                  | UGEC | UUAC | GRAD |         |           |
| Change to a Course |                                                                                                                   |              |                  |       |                      |      |      |      |         |           |
| 1.                 | Title (description unchanged)                                                                                     | A            | A                | A     |                      |      | I    |      | I       | I         |
| 2.                 | Description (not affecting content)                                                                               | A            | A                | A     |                      |      | I    |      | I       | I         |
| 3.                 | Course term(s)                                                                                                    | A            | I                | A     |                      |      | I    |      | I       | I         |
| 4.                 | Content (substantive change)                                                                                      | A            | A                | A     |                      |      | I    |      | A       | I         |
| 5.                 | Number of hours (lecture, lab, contact)                                                                           | A            | A                | A     |                      |      | A    |      | A       | I         |
| 6.                 | Course number within the hundred                                                                                  | A            | A                | I     |                      |      | I    |      | I       | I         |
| 7.                 | Course number beyond the hundred                                                                                  | A            | A                | A     |                      |      | A    |      | A       | I         |
| 8.                 | Prerequisites                                                                                                     | A            | A                | A     |                      |      | I    |      | I       | I         |
| 9.                 | Course fee(s)                                                                                                     | A            | --               | A     |                      |      | --   |      | A       | I         |
| 10.                | From U to G or G to U                                                                                             | A            | A                | A     |                      |      | A    |      | A       | I         |
| 11.                | Cross list with another department: U or G level                                                                  | A            | A                | A     |                      |      | A    |      | A       | I         |
| 12.                | Department of record                                                                                              | A            | A                | A     |                      |      | A    |      | A       | I         |
| 13.                | Open or close a course                                                                                            | A            | A                | A     |                      |      | A    |      | A       | I         |
| 14.                | New course — See website for application and process.<br>This change includes combining or splitting a course(s). | A            | A                | A     |                      |      | A    |      | A       | I         |

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

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|     |                                                                                                             | COUNCIL <sup>3</sup> |                  |       |     |      |      |      |         |         |           |                   |
|-----|-------------------------------------------------------------------------------------------------------------|----------------------|------------------|-------|-----|------|------|------|---------|---------|-----------|-------------------|
|     | Change to a Degree Plan                                                                                     | Dept./School         | College Academic | Deans | TEC | UGEC | UUAC | GRAD | Provost | Faculty | President | Board of Trustees |
| 1.  | University Requirements — Change in approved course content <sup>6</sup>                                    | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 2.  | University Requirements — Add or drop a required course from the University Requirements chart <sup>6</sup> | A                    | A                | A     | A   |      |      |      | A       | A       | A         | --                |
| 3.  | University Requirements — Add or drop a course from a menu within the University Requirements <sup>6</sup>  | A                    | --               | --    | A   |      |      |      | A       | --      | A         | --                |
| 4.  | University Requirements — Change hours within a menu on the University Requirements chart <sup>6</sup>      | A                    | A                | A     | A   |      |      |      | A       | A       | A         | --                |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 5.  | Major — Revision of major <sup>4,5</sup>                                                                    | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 6.  | Major — Adopt or change admission requirements                                                              | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 7.  | Major — Add <sup>4,5</sup>                                                                                  | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 8.  | Major – Discontinue (proposed by the department or college)                                                 | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 9.  | Major – Discontinue (proposed by the Provost)                                                               | See below.           |                  |       |     |      |      |      |         |         |           |                   |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 10. | GPA — Revise major or cumulative requirement                                                                | A                    | A                | A     | A   |      |      |      | A       | A       | A         | --                |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 11. | Minor — Revise course selection                                                                             | A                    | A                | A     | I   |      |      |      | I       | --      | I         | --                |
| 12. | Minor — Add                                                                                                 | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 13. | Minor – Discontinue (proposed by the department or college)                                                 | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 14. | Minor – Discontinue (proposed by the Provost)                                                               | See below.           |                  |       |     |      |      |      |         |         |           |                   |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 15. | Degree — Add                                                                                                | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 16. | Degree – Discontinue (proposed by the department or college)                                                | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 17. | Degree – Discontinue (proposed by the Provost)                                                              | See below.           |                  |       |     |      |      |      |         |         |           |                   |
| 18. | Any change to a graduate degree program                                                                     | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |

|                         |                                                                | COUNCIL <sup>3</sup> |            |      |     |      |          |         | Board of Trustees |
|-------------------------|----------------------------------------------------------------|----------------------|------------|------|-----|------|----------|---------|-------------------|
|                         |                                                                | Provost              | Department | Dean | TEC | UUAC | Graduate | Faculty |                   |
| Provost-Proposed Change |                                                                |                      |            |      |     |      |          |         |                   |
| 1.                      | Major/Graduate Program – Discontinue (proposed by the Provost) | A                    | R          | R    |     | A    |          | A       | I                 |
| 2.                      | Minor – Discontinue (proposed by the Provost)                  | A                    | R          | R    |     | A    |          | --      | --                |
| 3.                      | Degree – Discontinue (proposed by the Provost)                 | A                    | R          | R    |     | A    |          | A       | I                 |

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|    |                                                                                                                              | COUNCIL <sup>3</sup> |                  |       |      |      |      |         | President |
|----|------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|-------|------|------|------|---------|-----------|
|    | Change to the Catalog Information                                                                                            | Dept./School         | College Academic | Deans | UGEC | UUAC | GRAD | Provost |           |
| 1. | General requirements for graduation including course requirements that are common to all majors for all degrees <sup>7</sup> | --                   | --               | --    | A    |      |      | A       | A         |
| 2. | Admission requirements                                                                                                       | --                   | --               | --    | A    |      |      | A       | A         |
| 3. | Policies governing academic probation and suspension                                                                         | --                   | --               | --    | A    |      |      | A       | A         |
| 4. | Requirements for graduating with honors                                                                                      | --                   | --               | --    | A    |      |      | A       | A         |

<sup>1</sup> Councils may request additional information about “Information” items. These items are approved as “Consent Agenda.”

<sup>2</sup> The Dean and Department should respond to the Provost’s recommendation to close a program in writing. Advise & Respond (R) requires that the voting body should receive the written responses at least one week prior to the vote.

<sup>3</sup> All courses that meet University Requirements for general education must go through UGEC. Courses or degrees offered only to students seeking teacher certification must go through the Teacher Education Council. All undergraduate changes must go before the UUAC. All graduate degree plan changes must go through the Graduate Council.

<sup>4</sup> A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

<sup>5</sup> Program or course changes that apply to any major that includes Teacher Certification will be reviewed by the college, the Teacher Education Council (TEC), and then the UUAC.

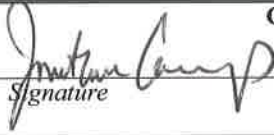
<sup>6</sup> Courses that satisfy ACU’s University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and “not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession” (SACS 2.7.3). Departments may request exceptions to the first three criteria.

<sup>7</sup> The UUAC approved the clarification that “general requirements for graduation” means the enumerated items in the “General Requirements for Bachelor’s Degrees” section of the catalog.

Revised 8-26-19

## Curriculum/Catalog Changes Signature Page

|                                                                                                |                             |
|------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Department/School Chair(s)</b>                                                              |                             |
| <br>Signature | 09/10/2019<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date      |

|                                                                                                |                           |
|------------------------------------------------------------------------------------------------|---------------------------|
| <b>College Academic Council(s)</b>                                                             |                           |
| <br>Signature | 11-15-19<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date    |

|                                                                                                |                          |
|------------------------------------------------------------------------------------------------|--------------------------|
| <b>Dean(s)</b>                                                                                 |                          |
| <br>Signature | 12/5/19<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date   |

|                                  |                        |
|----------------------------------|------------------------|
| <b>Teacher Education Council</b> |                        |
| _____<br>Chair's signature       | _____<br>Approval date |

|                                  |                        |
|----------------------------------|------------------------|
| <b>General Education Council</b> |                        |
| _____<br>Chair's signature       | _____<br>Approval date |

|                                       |                        |
|---------------------------------------|------------------------|
| <b>Undergraduate Academic Council</b> |                        |
| _____<br>Chair's signature            | _____<br>Approval date |

|                            |                        |
|----------------------------|------------------------|
| <b>Graduate Council</b>    |                        |
| _____<br>Chair's signature | _____<br>Approval date |

|                    |                        |
|--------------------|------------------------|
| <b>Provost</b>     |                        |
| _____<br>Signature | _____<br>Approval date |

|                                  |                        |
|----------------------------------|------------------------|
| <b>Faculty</b>                   |                        |
| _____<br>Chair of faculty senate | _____<br>Approval date |

|                    |                        |
|--------------------|------------------------|
| <b>President</b>   |                        |
| _____<br>Signature | _____<br>Approval date |

## ENVR 112

Old outcomes:

|    | <b>Course Outcome</b>                                                                                                                                                 | <b>Measurement Instrument</b>                                                                                                                                                                                                      |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Establish foundation in basic Botany as it applies to crop production; including anatomy, physiology, reproduction, and growth and development of higher plants.      | Unit Exams for each major section of the course.                                                                                                                                                                                   |
| 2. | Analyze crop production systems and theorize solutions to environmental factors affecting crop plants, including climate, soil, crop pests, crop diseases, and weeds. | Preparation of a 7 to 10 page (single space) research paper on a singular crop approved by the instructor.                                                                                                                         |
| 3. | Integrate course content to formulate solutions to real life production problems.                                                                                     | Problem base learning assignments where groups must use course content to solve problems. Examples might include specific problems related to nutrient deficiencies in Pecan or integrated pest management for hot house tomatoes. |
| 4. | Demonstrate mastery of practical field and lab techniques appropriate to crop production systems.                                                                     | Laboratory exercises in techniques and production practices appropriate to sustainable agriculture.                                                                                                                                |

Revised outcomes:

|    | <b>Course Outcome</b>                                                                                                            | <b>Measurement Instrument</b> |
|----|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1. | Explain the basic concepts of botany, including plant anatomy, growth and development, photosynthesis, and cellular respiration. | Exams<br>Lab assignments      |
| 2. | Explain the roles of light, water, and soil nutrients in plant growth.                                                           | Exams<br>Lab assignments      |
| 3. | Describe aspects of sustainable and non-sustainable agricultural production as it relates to soil, weed, and pest management.    | Writing assignment<br>Project |
| 4. | Explain the basic principles of maintaining forage on rangelands.                                                                | Lab assignments               |

Class time & place: MW: 1:00-1:50PM, Onstead Science Center 265  
Lab W: 2:00-4:50PM, McDaniel House or Rhoden Farm

Text: Gliessman, S.R. Agroecology: the ecology of sustainable food systems. 3rd edition. 2015. CRC Press. ISBN: 978-1-4398-9561-0

There is no lab text.

\* [Click this link to see ACU Bookstore for these materials.](#) Search for the course, AENV 130.05

Course Prerequisite: None

Instructor: Dr. Kendra Jernigan, PhD

Office: Onstead Science Center 145C

Phone: 325-674-2101

Office Hrs: Monday: 9am-10am

Tuesday: 1pm-4pm

Wednesday: 9am-10am

Thursday: None

Friday: 9am-10am & 1pm-2pm

\*or other times by appointment via Canvas message. Priority use of Canvas messaging over email, thank you! (Email: [kendra.jernigan@acu.edu](mailto:kendra.jernigan@acu.edu))

### **ACU Mission Statement**

The mission of ACU is to educate students for Christian service and leadership throughout the world.

### **College of Arts and Sciences Mission**

To educate students for worldwide Christian service and leadership through programs of study and other learning experiences that blend a liberal arts education with professional and career education.

### **Agricultural & Environmental Sciences Mission Statement**

To educate students for Christian stewardship of sustainable agricultural and environmental systems throughout the world.

### **Course Description**

A study of applied agroecological sciences and sustainable use of plants by man. Focus on plant anatomy, physiology, reproduction, agroecology, environmental growth factors, and emerging agronomic technologies. Laboratory graded and credited with course. May be used to satisfy University Requirements. Course fee.

### **Christian Perspective**

Then God said, "Let the land produce vegetation: seed-bearing plants and trees on the land that bear fruit with seed in it, according to their various kinds." The Lord God took the man and put him in the Garden of Eden to work it and take care of it. From the beginning, God has given us stewardship over plants, and responsibility of tending them. Our growing population requires increasing ingenuity and efficiency in sustainably producing food and other plant products. As Christians, we have to be conscious of this need, while also recognizing that we are stewards of all creation, not just supplying human needs. Therefore, good stewardship means balancing needs of the environment and people.

### **Course Format**

Class meets for 50 minutes, 2 times per week. Format in class will be a mixture of traditional lecture, multimedia presentations, and discussion. Lab time will be used for more direct, hands-on learning. Labs will be at both the McDaniel House and Rhoden Farm.

### **Course Goal and Specific Learning Objectives**

By the end of the course, students will be able to:

|    | Course Outcome                                                                                                                   | Measurement Instrument        |
|----|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1. | Explain the basic concepts of botany, including plant anatomy, growth and development, photosynthesis, and cellular respiration. | Exams<br>Lab assignments      |
| 2. | Explain the roles of light, water, and soil nutrients in plant growth.                                                           | Exams<br>Lab assignments      |
| 3. | Describe aspects of sustainable and non-sustainable agricultural production as it relates to soil, weed, and pest management.    | Writing assignment<br>Project |
| 4. | Explain the basic principles of maintaining forage on rangelands.                                                                | Lab assignments               |

**Other Learning Outcomes:** Several learning outcomes and transferable skills are incorporated into this course. By the end of the course, students will have improved skills in:

Critical thinking through:

the collection and analysis of data in labs

reading and discussion of principle concepts of the course

Communication through:

writing lab reports in professional journal style

### **Assessment and Grading**

|                                                                                                 |          |
|-------------------------------------------------------------------------------------------------|----------|
| <b>Lecture</b>                                                                                  |          |
| 3 major exams (100 points each)                                                                 | 300 pts  |
| 1 cumulative final exam (150 points)                                                            | 150 pts  |
| 10 quizzes (10 points each, lowest two scores dropped)                                          | 80 pts   |
| 4 short writing assignments (abstracts/reading comprehension/technical writing; 25 points each) | 100 pts  |
| 10 homework assignments (mainly based on textbook)                                              | 100 pts  |
| Group plant paper                                                                               | 100 pts  |
| Group plant presentation                                                                        | 100 pts  |
| <b>Lab</b>                                                                                      |          |
| Lab assignments (10 points each)                                                                | 100 pts  |
| <b>Both</b>                                                                                     |          |
| 70 participation points based on class & lab                                                    | 70 pts   |
| <b>Total</b>                                                                                    | 1000 pts |

|                          |          |   |
|--------------------------|----------|---|
| Grading Scale in points: | 900-1000 | A |
|                          | 800-899  | B |
|                          | 700-799  | C |
|                          | 600-699  | D |
|                          | 0-599    | F |

**Assignments received late** will be assessed a penalty, the severity of which will depend on the degree to which the assignment is late. Typically, 10% of the total possible grade will be deducted for each day the assignment is late (i.e. a 50 point report would be docked 5 pts. per day).

**Makeups:** It is the student's responsibility to make up all missed work. Due to setup time and space considerations, lab make-ups are sometimes difficult to arrange. Any make-up work must be completed **within one week of the original due date**. Make up exams will be similar to the original in content and format, but will have no extra credit component. Labs, exams, quizzes, or in-class work missed due to an unexcused absence cannot be made up.

**Extra Credit:** There may be random extra credit points available throughout the semester. These will be the only opportunities for extra credit in this course.

### **Details about course assessments:**

**Quizzes and exams:** Exams will consist of a mixture of multiple choice, true/false, matching, and short answer questions. Each exam is worth 100 points. The final exam is **cumulative** and is worth 150 points. Makeup exams are given (within 1 week of actual exam date) at the discretion of the instructor only when accompanied by a valid written note. Quizzes will be given approximately once/week. Quiz format will be similar to that of the exams.

**Short writing assignments:** Students will be given four writing assignments throughout the semester. These may include technical or persuasive writing.

**Homework assignments:** Students will have 10 homework assignments due throughout the semester. Most of these assignments will be directly based on the textbook readings.

**Group paper & presentation:** Students will select an issue related to sustainability and agroecological systems to research and present in a group setting. These groups will work together during the semester and then present their findings in a 5 page paper and an 8-10 minute presentation the final week of classes. Pieces of the group project will be due every few weeks throughout the semester.

**Lab assignments:** Throughout the semester, there will be 10 lab write ups or assignments that will be due at the conclusion of lab.

**Class participation:** Class participation is based on attendance and participation in discussions or activities. In lecture, after three unexcused absences, you will lose 5 points per absence from your participation grade. In lab, after one unexcused absence, you will lose 5 points per absence from your participation grade. Three tardies will equal one unexcused absence in class or lab.

### **University Policies**

**ADA compliance:** Abilene Christian University is dedicated to removing barriers and opening access for students with disabilities in compliance with ADA and Section 504 of the Rehabilitation Act. The Alpha Scholars Program facilitates disability accommodations in cooperation with instructors. In order to receive accommodations, you must be registered with Alpha Scholars Program, and you must complete a specific request for each class in which you need accommodations. If you have a documented disability and wish to discuss academic accommodations, please call 325-674-2667.

**Academic integrity:** Academic integrity is defined as academic work completed as assigned for each class by the individual or group responsible for the work. Violations of academic integrity and other forms of cheating involve the intention to deceive, mislead, or misrepresent and therefore, are a form of lying. Such actions are contrary to behavioral norms that flow from the nature of God. Academic misconduct includes, but is not limited to, the following: 1) Failure to give credit to sources used in a work in an attempt to present the work as one's own, 2) Submission of papers or projects obtained from another source (e.g., research service or club paper file) as one's own, and 3) Falsifying information orally or in writing. Academic misconduct may result in, but is not limited to, a zero on the assignment and/or an F in the course. Additionally, the department chair, Dean of your school, and the Dean of Student Life will be notified. See the College of Arts & Sciences policy, including how to appeal a decision, at <https://www.acu.edu/content/dam/community/documents/cas/cas-academic-integrity.pdf>.

**Harassment policy:** As a Christian community, Abilene Christian University has committed itself, unequivocally, to ensuring a working and learning environment in which the dignity of every individual is respected. Harassment is defined as unwelcome behavior or conduct based on sex, religion, race, age, color, national origin, veteran's status, disability, or any other characteristic protected by law when (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment, education, or participation in University programs or activities, (2) submission to, or rejection of, such conduct by an individual is used as the basis for a decision affecting an individual's employment, education, or participation in University programs or activities, or (3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive environment for work, education, or participation in a University program or activity. See the full university policy at <https://www.acu.edu/titleix>.

**FERPA:** "The Family Educational Rights and Privacy Act" affords the student certain rights with respect to student records." Refer to the ACU course catalog for a more thorough discussion (p. 9 in the 2015-2016 catalog).

### **Course Policies**

**Professionalism:** You should conduct yourself in a professional manner, similar to what will be expected of you in the workplace.

### **Expectations**

This semester, we have the opportunity to explore various aspects of plant science together. In order for us to work together and learn from one another, I want to delineate what is expected of students and what you can expect from me.

### **Expectations of Students:**

- I expect you to put forth your best efforts and be prepared to learn. As such, I expect you to be on time to class and be prepared to learn.
- I expect you to be respectful of everyone in class – fellow students as well as the professor. We are all human and therefore all make mistakes, but we are also created in God's image. Please extend grace to everyone in our class when mistakes are made and be willing to consider viewpoints other than your own. Please be mindful that not everyone will have the same life experiences or approaches as you do. We can heartily disagree with others, but still afford them respect and courtesy.
- I expect you to spend the necessary time to complete your assignments and study for this class. The assignments, group assignments, quizzes, and exams are designed to further your understanding of course topics and help you earn your final class grade.

- I expect you to do your own work for this class and to not engage in any form of academic dishonesty or plagiarism.

#### Expectations of the Instructor:

- I will respond to your Canvas messages, emails, and other forms of communication promptly – generally within 24 hours. In order to allow for Sabbath rest and time with my family, I will not be checking emails as often in the evenings or on weekends.
- I will respect you and your desire to learn. My role is to provide you with the resources to succeed and facilitate your learning in this class. Please do not hesitate to ask if you do not understand something; I will do my best to reword or spend additional time on a subject to ensure that all content is understood. You are enrolled in this class to learn. I am happy to provide you with resources and opportunities to be successful.
- I will be prepared and on time to class. It is disrespectful to you if I am not prepared and on time for class, as such I will make every effort to be prepared for class just as I expect you to be.
- I will return assignments, quizzes, and tests to you within 2 weeks of the due date. It is important for you to have assignments returned to you in a timely manner, so that you can assess what areas you need to spend more time studying and what areas you already have successfully mastered.

#### **Class Attendance and Conduct**

**Attendance:** Attendance of class is expected. It is the responsibility of the student to make sure that any missed work is made up, and to stay current with the covered material. Any absence due to documented illnesses, family emergencies, or university approved events will be considered excused. In lecture, after three unexcused absences, you will lose 5 points per absence from your participation grade. In lab, after one unexcused absence, you will lose 5 points per absence from your participation grade.

**Participation and Tardiness:** Discussion is an integral part of this class. Worthwhile discussion can only happen if people are prepared. If students have done the requested readings before class, this should not be a problem. But you need to be willing to contribute to the discussions. Your participation grade will be based on your level of interactions in the class and attendance. Being late to class is unprofessional and disruptive. Three tardies will equal one unexcused absence in class or lab. Chronic or severe tardiness (e.g. being more than 10 minutes late) will result in loss of participation points.

**Conduct:** Students are expected to conduct themselves in accordance with the standards given in the Student Handbook. I shall treat you with the same level of respect I expect from you. No electronic devices shall be turned on during class, except for those specifically being used for note taking or assignments in the class.

#### **Technology Use:**

Appropriate use of electronic devices for classroom purposes is permitted. Inappropriate use of any electronic devices in a learning environment is disruptive and disrespectful of others. Unless the devices are approved as accommodations for persons with disabilities or have been designated for use in the classroom by the instructor, all such devices should be turned off and put away during class. Students violating this policy may be asked to leave the classroom immediately.

**Canvas Messaging.** Have a question about anything? Shoot me a message in Canvas. I will respond happily within 24-36 hours.

These messages are expected to be professional and respectful. Texting shorthand and abbreviations are not appropriate for messages. Confirmation of message replies (i.e such as ‘Thank you!’) is expected, professional, and is the standard in professional workplace environments.

If you have a problem with Canvas Messaging, you are welcome to email me: [kendra.jernigan@acu.edu](mailto:kendra.jernigan@acu.edu).

## Plant Science Tentative Class Schedule Spring 2019

| Date                                                             | Week                                                                                                                                                                                                                                                                                                                             | Exams  | Quizzes | Subject                                  | Chapter | Homework             |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|------------------------------------------|---------|----------------------|
| Mon 1/14                                                         | 1                                                                                                                                                                                                                                                                                                                                |        |         | Introduction                             |         |                      |
| Wed 1/16                                                         | 1                                                                                                                                                                                                                                                                                                                                |        |         | Plant structure                          |         |                      |
| <b>Fri 1/18 – Last day to add/drop a class without a penalty</b> |                                                                                                                                                                                                                                                                                                                                  |        |         |                                          |         |                      |
| <b>Mon 1/21 – Martin Luther King Jr. Day – No classes</b>        |                                                                                                                                                                                                                                                                                                                                  |        |         |                                          |         |                      |
| Wed 1/23                                                         | 2                                                                                                                                                                                                                                                                                                                                |        | Quiz 1  | Plant structure                          |         | Assignment 1         |
| Mon 1/28                                                         | 3                                                                                                                                                                                                                                                                                                                                |        |         | Plant physiology & nutrition             | 3       |                      |
| Wed 1/30                                                         | 3                                                                                                                                                                                                                                                                                                                                |        | Quiz 2  | Plant growth & development               |         | Assignment 2         |
| Mon 2/4                                                          | 4                                                                                                                                                                                                                                                                                                                                |        |         | Photosynthesis                           | 3       |                      |
| Wed 2/6                                                          | 4                                                                                                                                                                                                                                                                                                                                |        | Quiz 3  | Cellular respiration                     |         | Assignment 3         |
| Mon 2/11                                                         | 5                                                                                                                                                                                                                                                                                                                                |        |         | Light                                    | 4       | Writing assignment 1 |
| Wed 2/13                                                         | 5                                                                                                                                                                                                                                                                                                                                | EXAM 1 |         |                                          |         |                      |
| Mon 2/18                                                         | 6                                                                                                                                                                                                                                                                                                                                |        |         | Temperature                              | 5       |                      |
| Wed 2/20                                                         | 6                                                                                                                                                                                                                                                                                                                                |        | Quiz 4  | Humidity & rainfall                      | 6       | Assignment 4         |
| Mon 2/25                                                         | 7                                                                                                                                                                                                                                                                                                                                |        |         | Soil                                     | 8       |                      |
| Wed 2/27                                                         | 7                                                                                                                                                                                                                                                                                                                                |        | Quiz 5  | Water in the soil                        | 9       | Assignment 5         |
| Mon 3/4                                                          | 8                                                                                                                                                                                                                                                                                                                                |        |         | Fire                                     | 10      | Writing assignment 2 |
| Wed 3/6                                                          | 8                                                                                                                                                                                                                                                                                                                                |        | Quiz 6  | Biotic factors                           | 11      | Assignment 6         |
| <b>3/11 through 3/15 – Spring Break – Campus closed</b>          |                                                                                                                                                                                                                                                                                                                                  |        |         |                                          |         |                      |
| Mon 3/18                                                         | 9                                                                                                                                                                                                                                                                                                                                |        |         | Environment complex                      | 12      |                      |
| Wed 3/20                                                         | 9                                                                                                                                                                                                                                                                                                                                | EXAM 2 |         |                                          |         |                      |
| Mon 3/25                                                         | 10                                                                                                                                                                                                                                                                                                                               |        |         | Heterotrophic Organisms                  | 13      |                      |
| Wed 3/27                                                         | 10                                                                                                                                                                                                                                                                                                                               |        | Quiz 7  | Population ecology of agroecosystems     | 14      | Assignment 7         |
| Mon 4/1                                                          | 11                                                                                                                                                                                                                                                                                                                               |        |         | Genetic resources in agroecosystems      | 15      | Writing assignment 3 |
| Wed 4/3                                                          | 11                                                                                                                                                                                                                                                                                                                               |        | Quiz 8  | Species interactions in crop communities | 16      | Assignment 8         |
| Mon 4/8                                                          | 12                                                                                                                                                                                                                                                                                                                               |        |         | Agroecosystem diversity                  | 17      |                      |
| Wed 4/10                                                         | 12                                                                                                                                                                                                                                                                                                                               |        | Quiz 9  | Disturbance & succession                 | 18      | Assignment 9         |
| <b>Fri 4/12 – Last day to withdraw from any course</b>           |                                                                                                                                                                                                                                                                                                                                  |        |         |                                          |         |                      |
| Mon 4/15                                                         | 13                                                                                                                                                                                                                                                                                                                               |        |         | Animals in agroecosystems                | 19      | Writing assignment 4 |
| Wed 4/17                                                         | 13                                                                                                                                                                                                                                                                                                                               | EXAM 3 |         |                                          |         |                      |
| <b>Fri 4/19 – Good Friday – Campus closed</b>                    |                                                                                                                                                                                                                                                                                                                                  |        |         |                                          |         |                      |
| Mon 4/22                                                         | 14                                                                                                                                                                                                                                                                                                                               |        |         | Landscape diversity                      | 21      |                      |
| Wed 4/24                                                         | 14                                                                                                                                                                                                                                                                                                                               |        | Quiz 10 | Indicators of Sustainability             | 22      | Assignment 10        |
| Mon 4/29                                                         | 15                                                                                                                                                                                                                                                                                                                               |        |         | Group presentations                      |         |                      |
| Wed 5/1                                                          | 15                                                                                                                                                                                                                                                                                                                               |        |         | Group presentations                      |         |                      |
| Mon 5/6                                                          | <p>Dead Day, Monday, (5/6).</p> <p><b>COMPREHENSIVE FINAL EXAM: Wednesday (5/8) from 8am until 9:45am</b></p> <p>*ACU policy is that NO final is to be taken early.</p> <p>*Be sure to <u>double check the ACU exam schedule web page here</u>, since the date and time may be changed by the registrar during the semester.</p> |        |         |                                          |         |                      |