

**AEC6932**  
**Statistical Thinking in Behavioral Sciences**  
**Fall 2018 (August 22 – December 5); 3 Credits**

**Instructor:**

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**Course Delivery:**

This course is offered online. The e-learning system can be accessed by login on to [elearning.ufl.edu](http://elearning.ufl.edu) and clicking on “Log in to e-Learning”. When prompted, enter your Gatorlink ID and password. Each module will officially begin on the Monday of each week. The course web page can be accessed 24 hours a day and each student may complete the coursework at his or her own pace within this weekly timeframe.

**Course Description:**

This is an introductory course designed to introduce basic fundamentals and statistical procedures to agriscience teachers and extension county faculty. It is designed to assist students in becoming better consumers of agricultural and educational research.

**Objectives:**

At the completion of the course, the learner will be able to:

1. Utilize basic statistical procedures to improve effectiveness as a teacher or agent.
2. Interpret statistical procedures included in research publications.
3. Synthesize research findings to identify a solution to a problem.

**Course Organization:**

This online course is designed to be a self-paced course supported and facilitated by the course instructor. The course homepage contains everything you will need to complete this course including: the syllabus, details for completion of every assignment, course information and tools for communicating with the instructor and other students. All this information will be found in each weekly learning module. Each learning module will generally contain: 1) a list of assigned readings from your required textbook or additional sources; 2) recorded lectures; and 3) information about assignments or discussion questions that are due that week (see: [A note about on-line participation](#)).

### Class Dynamics:

The course instructor will monitor the online discussion forums and is available to answer any questions you have about the course material via the course e-mail system. Each week students are expected to complete the assigned reading, review any recorded lectures that might be posted, and submit the required assignment(s).

### Required Textbook and Readings:

Students are expected to purchase the text (Available at the University of Florida Bookstores or at online providers):

- Ravid, R. (2015). Practical Statistics for Educators. 5th Ed. Rowman & Littlefield: Lanham, MD.

If supplementary readings are assigned, an electronic copy or web address will be provided within the appropriate weekly learning modules.

### Assignments, Dates, and Grades:

*(Full descriptions of each assignment are posted on the course website)*

Activity/Assignment	Due Date	Total Point Value
Bio-sheet	09/01/18	20
Discussion I	09/08/18	30
Assignment 1, Basic Concepts in Statistics	09/15/18	80
Assignment 2, Descriptive Statistics	09/22/18	80
Discussion II	09/29/16	30
Assignment 3, Measures of Central Tendency	10/06/18	80
Assignment 4, Test Scores	10/13/18	80
Assignment 5, Measuring Relationships	10/20/18	80
Assignment 6, Analysis of Variance	11/03/18	80
Assignment 7, Chi Squares	11/10/18	80
Assignment 8, Choosing Statistical Tests	11/17/18	80
Discussion III	12/01/18	30
Final Exam	12/05/18	250
<b>Total Points</b>		<b>1000</b>

### Course Grading Scale (Minimum Points Required)

<b>A</b>	Min. 950	<b>A-</b>	Min. 900	<b>B+</b>	Min. 870
<b>B</b>	Min. 830	<b>B-</b>	Min. 800	<b>C+</b>	Min. 770
<b>C</b>	Min. 730	<b>C-</b>	Min. 700	<b>D+</b>	Min. 670
<b>D</b>	Min. 630	<b>D-</b>	Min. 600	<b>E</b>	599 or less

## Course Schedule

Week	Topics	Readings	Due
1	08/27 – 09/01	_ Course Introduction	_ Bio-sheet
2	09/04 – 09/08	_ Basic Concepts in Statistics I	<u>Chapter 2</u> _ Discussion I
3	09/10 – 09/15	_ Basic Concepts in Statistics II	_ Assignment 1
4	09/17 – 09/22	_ Descriptive Statistics	<u>Chapter 3</u> _ Assignment 2
5	09/24 – 09/29	_ Measures of Central Tendency	<u>Chapter 4</u> _ Discussion II
6	10/01 – 10/06	_ Measures of Variability	<u>Chapter 5</u> _ Assignment 3
7	10/08 – 10/13	_ Interpreting Test Scores	<u>Chapters 6 &amp; 12</u> _ Assignment 4
8	10/15 – 10/20	_ Measuring Relationships	<u>Chapters 7 &amp; 8</u> _ Assignment 5
9	10/22 – 10/27	<b>Homecoming</b>	
10	10/29 – 11/03	_ Analysis of Variance	<u>Chapters 9 &amp; 10</u> _ Assignment 6
11	11/05 – 11/10	_ Chi Squares	<u>Chapter 11</u> _ Assignment 7
12	11/13 – 11/17	_ Choosing Statistical Tests	<u>Chapter 15</u> _ Assignment 8
13	11/19 – 11/24	<b>Thanksgiving</b>	
14	11/26 – 12/01	----- <i>Work on Final Exam</i> -----	_ Discussion III
13	12/03 – 12/05	_ End of Course	_ Final Exam

### A note about online participation

Even though this course is being taught via distance, students are expected to be active participants in the class web-discussions and exercises. The course discussion board provides a venue to increase interaction and is used to replicate a traditional class discussion. In order to increase interaction between all parties within the course, students will be required to participate in discussion board forums. Students will post at least one comment and one response to each discussion forum and should also review the postings of others. Although points for this assignment are awarded based on student participation, not discussion content (i.e. there really are no right or wrong answers) please try to ensure your input and comments are both appropriate and applicable to the assigned discussion topic. Failure to be engaged in the sharing of ideas not only limits the value you gain from this course, but also that of others in the course.

### **A note about written reports**

Cite all references using APA style format. APA (American Psychological Association) has a reference manual available at the University of Florida Library and they have information about writing and references on their website, which is <http://www.apa.org/>. The format to be used for papers is double-spacing; one-inch margins, and typed in 12-point font, unless otherwise noted. A consistent style is used for grading written papers. Primarily, show that you have learned and are able to apply the course material through your writing. In grading, the instructor looks for student's cognitive understanding and application of theories, principles, concepts, ideas, approaches that have been covered in readings and the course.

### **Lateness Policy**

A *10% per day* deduction will be assessed for assignments turned in late. Work more than a week late will *not* be accepted. This policy will be strictly enforced. All assignment and online discussion deadlines are *critical* for your individual success in this course and the success of the course overall. If you feel that you will be unable to meet these deadlines, you *must* communicate this to the course instructor *at least one day before the assignment or discussion posting is due*.

### **Grades and Grade Points**

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

### **Absences and Make-Up Work**

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

### **Academic Honesty**

"UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<http://www.dso.ufl.edu/sccr/process/student-conduct-honorcode/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

### **Course Evaluation**

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

### **Software Use:**

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual

violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

## Campus Helping Resources

- Health and Wellness
  - **U Matter, We Care:** If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) or 352 392-1575 so that a team member can reach out to the student.
  - **Counseling and Wellness Center:** <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.
  - **Sexual Assault Recovery Services (SARS)** Student Health Care Center, 392-1161.
  - **University Police Department**, 392-1111 (or 9-1-1 for emergencies). <http://www.police.ufl.edu/>.
- Academic Resources
  - **E-learning technical support**, 352-392-4357 (select option 2) or e-mail to [Learningsupport@ufl.edu](mailto:Learningsupport@ufl.edu). <https://lss.at.ufl.edu/help.shtml>.
  - **Career Resource Center**, Reitz Union, 392-1601. Career assistance and counseling. <http://www.crc.ufl.edu/>.
  - **Library Support**, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.
  - **Teaching Center**, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. <http://teachingcenter.ufl.edu/>.
  - **Writing Studio**, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. <http://writing.ufl.edu/writing-studio/>.

## Services for Students with Disabilities

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

## Online Courses

Each online distance learning program has a process for, and will make every attempt to resolve, student complaints within its academic and administrative departments at the program level. See <http://www.distance.ufl.edu/student-complaintprocess> for more details.

## Disclaimer about syllabus:

Serious effort and consideration were used in formulating the syllabus presented by the instructor. While viewed as an educational contract between the instructor and student, unforeseen events may cause changes to the scheduling of assignments, readings, etc. The instructor reserves the right to make any changes deemed necessary to best fulfill the course objectives. Students registered for this course will be made aware of any changes in a timely fashion using reasonable means. This disclaimer does not abrogate any student rights as described by University rules and regulations.