

## ANSC 5322 – Statistics for the Animal Sciences Course Syllabus - Spring 2020

### **Instructor**

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### **Teaching Assistant**

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### **Course Description**

This course emphasizes statistical literacy, use of real data and technology, statistical conceptual understanding, and active learning.

### **Course Objectives**

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

1. Discuss the importance of the application of statistics in the agricultural and life sciences.
2. Identify parametric and nonparametric tests, descriptive statistics, and inferential statistics.
3. List the basic assumptions involved in statistical methods.
4. Solve basic statistical tests.
5. Interpret statistical results.

### **ANSC Student Learning Objectives**

Student will demonstrate that he/she is able to:

1. Apply statistical concepts and procedures to animal science data.
2. Evaluate literature and references as they apply to the animal science field.
3. Demonstrate their knowledge of the fundamentals and advanced concepts relating to animal science.

### **Class Meeting Time/Place**

This is an entirely web-delivered course. Readings from the course text replace formal lecture. Hawkes Learning (see below) will be used for all e-mail communications, announcements, discussion board communication, reading and homework assignments, exams, and as the official gradebook for the course. Hawkes also comes with an e-copy of the course textbook. E-mails will be sent via Hawkes, so regular checking of your e-mail is essential and expected. Blackboard will be used for communication and ONLY until all students have their Hawkes accounts.

### **Text and Supplies**

1. Hawkes Online Software Access Code (online learning system plus electronic copy of Item 2). (**Required**)
2. Hawkes, J. S. (2019). *Discovering Statistics and Data* (3<sup>rd</sup> ed.). Mount Pleasant, SC. Hawkes Learning / Quant Systems.
  - An electronic version (e-book) is **required** (and is automatically included with Item 1 above). A physical hardcopy is optional but encouraged. See "Bundle Options" below for more information.

### **Bundle Options**

- a) Items 1 and 2 (e-book version) above can be purchased bundled together from the SR Bookstore under ISBN 978-1-64277-015-5. The SR Bookstore lists this bundle as "Required". Hawkes allows 20 days of temporary access to this bundle during Hawkes registration if you have not yet purchased.

- b) Items 1 and 2 (e-book AND hardcopy of text) above can be purchased bundled together from the SR Bookstore under ISBN 978-1-64277-011-7. The SR Bookstore lists this bundle as “Optional Format”. A physical hardcopy of the text is not required, but is encouraged.
- c) Do not purchase both bundles listed by the SR Bookstore. Only one bundle (a or b above) is required.
- d) Hawkes access is critical to this course. **Students who have not purchased Item 1** (which includes an electronic version of Item 2) **by the end of the 2<sup>nd</sup> week** of the course **will be dropped with a grade of “F”**.
- e) Hawkes Tech Support: M-F, 7:00 AM to 9:00 PM (Central Time), 843-571-2825,  
<http://support.hawkeslearning.com/supportcenter/>

### Course Grade

Exam I	20%
Exam II	20%
Exam III	20%
Exam IV	20%
Homework	20%

### Grade Assignment

<60 = F, 60-69 = D, 70-79 = C, 80-89 =B, 90-100 = A.

### Class Organization and Policy

The course and its material are organized by week:

- **READINGS:** Each week has a reading assignment that explains that week’s material. Weekly reading will consist of 25-50 pages of the text, plus occasional supplemental material. As we will not have formal lectures, ***the assigned readings are essential; completing 100% of the assigned readings is expected.***
- **HOMEWORK:** The associated homework for each week’s material is typically due the following Monday. On occasion, the weekly homework is split with some due the Friday of the week of the material, and the rest due the following Monday. See tentative schedule at the end of the syllabus; revisions to the schedule are expected and will be posted to Blackboard as they occur.
- **EXAMS:** Four exams will be due on Fridays during the course (see schedule). For any given exam, the last homework over covered material will be due earlier that week on Monday, with the exam posted that same Monday, giving each student Tuesday through Friday to complete the exam. The course must go on however, and readings for post-exam sections are also assigned during exam weeks. For exam weeks, students are encouraged to focus on completing the exams before moving on to the assigned readings for that week.

Due Dates/Times/Extensions: All homework and exams are due at 11:59 pm (all times are central time) on the due date. No due dates for exams or homework will be extended without **PRIOR** e-mail arrangements initiated by the student, and only for valid reasons.

### Homework Grading and Late Policy:

- Homework is considered completed when a 90% mastery level is achieved in the Hawkes certify mode for that lesson. A zero is earned if the mastery level of 90% is never reached in Hawkes Certify mode.
- If the 90% mastery level is achieved, and the homework is completed on time, a score of 100 is earned.
  - However, students are highly encouraged to achieve 100% mastery in all lessons, as all lesson material is potential exam material.
- If the mastery level is achieved, but the homework is 0-1 days late, a score of 75 is earned.
- If the mastery level is achieved, but the homework is 1-2 days late, a score of 50 is earned.
- If the mastery level is achieved, but the homework is 2-3 days late, a score of 25 is earned.
- For 3 or more days late, the earned score will be zero, regardless of mastery level achieved.
- Therefore, the only possible homework scores are 0, 25, 50, 75, and 100.

### Exam Grading and Late Policy:

- Mastery levels are not utilized for exams in Hawkes.
- Late exams will incur a 10%-per-day late penalty.
- Therefore, all scores between 0% and 100% are possible for exams.

### **Academic Integrity**

On all work submitted for credit by students at the university, the following pledge is implied: **“On my honor, I have neither given nor received unauthorized aid in doing this assignment.”**

Unauthorized aid includes copying, sharing, or obtaining information from an unauthorized source, attempting to take credit for the intellectual work of another person, falsifying information, and giving or receiving information about a test, quiz, or assignment to other students.

Any student involved in academic dishonesty will receive no credit (0) for work done and/or may be penalized in accordance with published University rules.

### **General Expectations**

Statistics can be a very intimidating subject. However, you cannot survive in the animal sciences without knowing statistics. To maximize learning in this course, we should have some expectations of each other:

I expect from you:

- READ the required sections from the text. If you come to me with a question and it is clear that you haven't read the book, I will direct you to the reading first.
- ASK whenever something is unclear.
- DO ALL assignments.
- BE HONEST in all of your work.
- DO NOT fall behind. All material in the course builds on earlier material; catching up after falling behind will likely be exceedingly difficult.

What you can expect from me:

- GIVE 100% effort in teaching you the best I can.
- Make myself AVAILABLE to help by e-mail, chats, etc.
- ANSWER your questions to the best of my knowledge, and if I don't know the answer - find it.
- Be FAIR in all grading.
- Provide you with timely, constructive FEEDBACK regarding your work.

### **Reasonable Accommodations**

Sul Ross State University (SRSU) is committed to equal access in compliance with Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the Student's responsibility to initiate a request. Please contact Ms. Rebecca Greathouse Wren, M.Ed., LPC-S, Director/Counselor, Accessibility Services Coordinator, Ferguson Hall (Suite 112) at 432.837.8203; mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas 79832. Students should then contact the instructor as soon as possible to initiate the recommended accommodations.

### **Distance Education**

Students enrolled in distance education courses have equal access to the university's academic support services, such as Smarthinking, library resources, such as online databases, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should correspond using Sul Ross e-mail accounts and submit online assignments through Hawkes, which requires secure login information to verify students' identities and to protect students' information. The procedures for filing a student complaint are included in the student handbook. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website.

### Tentative Course Schedule

<b>Week #</b>	<b>Dates</b>	<b>Due Monday</b>	<b>Reading Assignment</b>	<b>Pages</b>	<b>Due Friday</b>
1	01/13-01/17	-	1.6-1.8, 2.1-2.2	35	HW Ch 1
2	01/21-01/24	HW Ch 2 (Tue)	3.1-3.5	45	-
3	01/27-01/31	HW Ch 3	4.1-4.3	43	-
4	02/03-02/07	HW Ch 4	5.1-5.3	48	-
5	02/10-02/14	HW Ch 5	6.1-6.3	34	Exam 1 (Ch 1-5)
6	02/17-02/21	HW Ch 6	7.1-7.3, 8.1-8.4	45	HW Ch 7
7	02/24-02/28	HW Ch 8	9.1-9.3, 9.5, 10.1-10.2	41	HW Ch 9
8	03/02-03/06	HW Ch 10	11.1-11.3, 11.6	40	Exam 2 (Ch 6-10)
9	03/09-03/13	-	SPRING BREAK	-	-
10	03/16-03/20	HW Ch 11	12.1-12.2	42	-
11	03/23-03/27	HW Ch 12	13.1-13.3	28	-
12	03/30-04/03	HW Ch 13	14.1-14.6	39	Exam 3 (Ch 11-13)
13	04/06-04/09	HW Ch 14	15.1-15.3	39	-
14	04/13-04/17	HW Ch 15	16.1-16.3	24	-
15	04/20-04/24	HW Ch 16	17.1-17.3, 17.6	31	-
16	04/27-05/01	HW Ch 17	N/A	0	Exam 4 (Ch 14-17)