

## **AEC 6767 – Research Strategies in Agricultural Education & Communication**

*Section 7824*  
Spring 2019  
(3 credit hours)

### **Instructor**

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### **Time and Location**

Wednesday Periods 6 – 8 (12:50 – 3:50 p.m.) 306 Rolfs Hall

### **Course Description**

This course focuses on applying the principles, practices, and strategies for conducting research in the social sciences, particularly dealing with the interface of the human dimension in the agricultural and natural sciences.

### **Course Objectives**

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

1. integrate the scientific process associated with research.
2. critically evaluate research studies.
3. describe how instrumentation and data collection procedures relate to the entire research process.
4. apply the concepts of qualitative and quantitative research.
5. develop instruments to collect valid and reliable data.
6. integrate instrumentation and data collection methods for various types of research problems and contextual situations.
7. identify a problem area of interest, develop constitutive and operational definitions associated with a study, ascertain an appropriate research design, and develop a research proposal.

### **Required Texts**

Ary, D., Jacobs, L. C., Sorensen, C. K., & Walker, D. A. (2014). *Introduction to research in education*. (9<sup>th</sup> Edition). Belmont, CA: Wadsworth, Cengage Learning. ISBN 9781133596745

American Psychological Association. (2010). *Publication Manual*. APA. (6<sup>th</sup> Edition).

## **COURSE ASSIGNMENTS & DESCRIPTIONS**

### **Research Workgroup**

Scientific research is not an individual endeavor. It requires the engagement of the community of scientists. Thus, each student will be assigned a research workgroup. The research workgroup will provide support, critique, and feedback to each member to assist in the development of the major assignments of the course. Students will be evaluated on their contributions to their research workgroup.

### **Module Quizzes**

Short quizzes on key ideas are included within each module.

### **Article Reviews**

Select two (2) articles from peer-reviewed, AEC-related research journals. Draft a review of each article using the guidelines in the "Guidelines for Evaluating Quantitative Research" and "Guidelines for Evaluating Qualitative Research" provided in class. Both reviews should be contained in one MS Word document. The guidelines for this assignment will be provided via the grading rubric.

### **Research Ideas**

Develop a draft problem statement for two (2) possible research ideas (advisor and/or chair approval). Each statement should be 1-2 pages (double spaced). Use the information found in Chapter 3 of your textbook to help you in the development of your draft problem statements. Both statements should be contained in one MS Word document uploaded to the course Canvas site. In addition to creating problem statements, each member of the Research Workgroup will evaluate and provide feedback on the research ideas of the other members of the Research Workgroup. The Research Problem Statement rubric should be used to guide the critique.

### **Research Problem Statement**

Develop a full problem statement from one of the research ideas (advisor and/or chair approval). This statement will be the foundation for the Research Prospectus assignment. The guidelines for this assignment will be provided via the grading rubric.

### **Research Prospectus – 1<sup>st</sup> Submission**

A research prospectus, essentially a preliminary mini-proposal, outlining a research study you wish to conduct and the rationale and methodology behind it, will be developed by each student and presented to the class during the course poster session (advisor and/or chair approval). The prospectus is to be typed, double spaced (12 pt font, 1 inch margins). The guidelines for this assignment will be provided via the grading rubric. Each member of the Research Workgroup will evaluate and provide feedback on the research prospectus of the other members of the Research Workgroup.

### **Research Prospectus – Revised Submission & Revision Letter**

In addition to the revised prospectus, the author must also include a letter stating how comments/suggestions made on the first draft were addressed.

### **Research Poster Presentation**

Develop a research poster based on the Research Prospectus assignment. The research posters will be presented during the AEC Research Poster Session. The guidelines for this assignment will be provided via the grading rubric and the call for posters.

### **Exams**

There will be two exams. Both will follow a "take home" discussion format.

<b>COURSE ASSIGNMENTS</b>	<b>Points</b>
Research Workgroup	100
Module Quizzes	30
Article Reviews (2)	20
Research Ideas (2)	30
Research Problem Statement	100
Research Prospectus – 1 <sup>st</sup> Submission	20
Research Prospectus – Revised Submission & Revision Letter	400
Research Poster Presentation	100
Exams (2 @ 100 points/each)	200
<b>Total Points</b>	<b>1000</b>

## **Grading Scale**

A = 930-1000	B- = 800-829	D+ = 660-699
A- = 900-929	C+ = 760-799	D = 630-659
B+ = 860-899	C = 730-759	D- = 600-629
B = 830-859	C- = 700-729	E = below 600

## **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**

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: *"We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."* You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit 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."*

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php>.

## **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**

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, [www.counseling.ufl.edu/cwc/](http://www.counseling.ufl.edu/cwc/)*
  - Counseling Services
  - Groups and Workshops
  - Outreach and Consultation
  - Self-Help Library
  - Training Programs
  - Community Provider Database
- *Career Resource Center, First Floor JWRU, 392-1601, [www.crc.ufl.edu/](http://www.crc.ufl.edu/)*

## **Services for Students with Disabilities**

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation  
0001 Reid Hall, 352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)

## **Course Calendar**

Dates	Topics / Learning Experiences	Assignment Due
Jan 9	The Nature of Scientific Inquiry	Module #1 Quiz
Jan 16	Research Designs & Evaluating Research Articles	Module #2 Quiz
Jan 23	The Research Problem	Article Reviews (2) Module #3 Quiz
Jan 30	Coverage and Sampling	Research Ideas (2) Module #4 Quiz
Feb 6	Research Workgroup	Research Idea Feedback
Feb 13	Fundamentals of Measurement	Problem Statement Module #5 Quiz
Feb 20	Experimental Research	Problem Statement Feedback Module #6 Quiz
Feb 27	Research Workgroup	Exam #1 – <i>submit exam online</i>
Mar 6	Spring Break	
Mar 13	Non-experimental Research	Module # 7 Quiz
Mar 20	Survey Research	Module #8 Quiz
Mar 27	Qualitative Research	Module #9 Quiz
Apr 3	Mixed Methods and Communicating Research	Research Prospectus – 1 <sup>st</sup> Submission Module #10 Quiz
Apr 10	Research Workgroup	Research Prospectus Feedback
Apr 17	<i>No class meeting – submit prospectus online</i>	Research Prospectus – Revised
Apr 24	Research Prospectus Poster Session	Research Poster
May 1	<i>No class meeting – submit exam online</i>	Exam #2