**Auburn University**

**Syllabus**

1. Course Number: CTCT 7780/6

Course Title: Research in Career and Technical Education

Credit Hours: 3 semester hours (Lecture 3)

Prerequisites: Departmental approval

Corequisites: None

2. Term: Summer Session 1 2018 (Syllabus Prepared May 2017)

**Day/Time:** Class Hours: Distance Canvas

Lab Hours: na

**Instructor:** James Lindner, Ph.D.

Professor Texas A&M University &

Scholar in Residence Auburn University

Office Address: Faculty Office: 5058 Haley

Contact Information: Office Phone: 334.844.4446

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Office Hours: Wednesday 10:00a-Noon and by appointment

3. Text and Major Resources:

Fraenkel, J. R., Wallen, N. E., & Hyun, H. H. (2015). *How to design and evaluate research in education* (9th ed.). New York: McGraw-Hill. [Connect Access Card for How to Design and Evaluate Research in Education ISBN# 9781259406171]

American Psychological Association. (2009). *Publication manual of the American Psychological Association* (6th ed.). Washington, DC: Author.

CITI Training. <https://cws.auburn.edu/OVPR/pm/compliance/irb/training>

Auburn Graduate School. <http://graduate.auburn.edu/current-students/>

Journal of Agricultural Education. <http://jae-online.org/>

American Association for Agricultural Education National Research Agenda. <http://aaaeonline.org/resources/Documents/AAAE_National_Research_Agenda_2016-2020.pdf>

McGraw-Hill. Research Wizard. <http://highered.mheducation.com/sites/dl/free/0078110394/586020/research_wizard.html>

Selected online research articles and online materials

This course will require the use of Canvas. Canvas can be accessed from the Auburn University website through AU Access.

**4. Course Description:**

Review, analysis, and application of research procedures and data analysis in career and technical education.

**5. Course Objectives:**

Upon completion of this course, students will be able to project themselves as competent, committed, and reflective professionals through their ability to:

1. Critique research in areas of specialization.

2. Use the tools and procedures of research to aid in decision making.

1. Develop research problems and research questions.

4. Develop a review of literature for a research proposal.

5. Plan a research design for a research project.

6. Interpret the research data.

7. Write a research proposal.

8. Collect research data using appropriate methods and procedures.

1. Synthesize instruction on research methods and procedures.
2. Use, produce, and disseminate research as part of one's professional obligation.
3. Develop a research article for publication

**6. Course Content:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Session#** | **Course Topic** | **Readings** | **Assignment** |
| Module 1  May 18-24 | **Introductions & Course Expectations**  The Nature of Research  The Research Problem  Research Wizard | Syllabus  McGraw-Hill Connect  Smart Book  Chapter 01  Chapter 02  Link | Discussion 01  Register with Connect [Book]  Cht 01 quiz  Cht 02 quiz  Download |
| Module 2  May 25-31 | **Educational Research**  Locating and Reviewing the Literature  Ethics in Research  Variables and Hypotheses  Sampling  Instrumentation | Chapter 03  Chapter 04  CITI Training  Chapter 05  Chapter 06  Chapter 07 | Discussion 01  Cht 03 quiz  Cht 04 quiz  Online  Cht 05 quiz  Cht 06 quiz  Cht 07 quiz |
| Module 3  June 1-7 | **Getting to Know Data**  Validity and Reliability  Internal Validity  Descriptive Statistics  Inferential Statistics  Statistics in Perspective | Chapter 08  Chapter 09  Chapter 10  Chapter 11  Chapter 12 | Discussion 01  Cht 08 quiz  Cht 09 quiz  Cht 10 quiz  Cht 11 quiz  Cht 12 quiz |
| Module 4  June 8-14 | **Quantitative Research**  Experimental Research  Single-subject Research  Correlational Research  Causal-comparative Research  Survey Research | Chapter 13  Chapter 14  Chapter 15  Chapter 16  Chapter 17 | Discussion 01  Cht 13 quiz  Cht 14 quiz  Cht 15 quiz  Cht 16 quiz  Cht 17 quiz |
| Module 5  June 15-21 | **Qualitative Research**  Nature of Qualitative Research  Observation and Interviewing  Content Analysis  Ethnographic Research  Historical Research  Mixed-methods Research | Chapter 18  Chapter 19  Chapter 20  Chapter 21  Chapter 22  Chapter 23 | Discussion 01  Cht 18 quiz  Cht 19 quiz  Cht 20 quiz  Cht 21 quiz  Cht 22 quiz  Cht 23 quiz |
| Module 6  June 23 | Final | All | Final  Research Wizard  Deadline ALL assignments |

**7. Assignments/Projects:**

1. Participate in all class discussions and exercises.
2. Complete all reading assignments.
3. Complete all quizzes and exams.

**Rubrics and Grading Scale:**

|  |  |  |
| --- | --- | --- |
| **Graded Activity** | **Points for each activity** | **Total points available** |
| Chapter Quizzes  May complete up to 20 quizzes  Must complete 1-15 & 17-18 | 100 | 2000 |
| Discussion Posts | 50 | 250 |
| CITI Training (Optional) | 250 | 250 |
| Research Wizard (Optional) | 500 | 500 |
|  | Total Points Available | 2250 |

The following grading scale will be used:

|  |  |  |
| --- | --- | --- |
| 90 - 100 % | 2025-2250 | A |
| 80% - 89.9% | 1800-2024 | B |
| 70% - 79.9% | 1575-1799 | C |
| 60% - 69.9% | 1350-1574 | D |
| Below 60% | 0-1349 | F |

**8. Class Policy Statements:**

Participation: Students are expected to participate in all class discussions and participate in all exercises. Assignments are due on announced dates. Unexcused late assignments are unacceptable. It is the student’s responsibility to contact the instructor if assignment deadlines are not met. Students are responsible for initiating arrangements for missed work. Students must satisfy all course objectives to pass the course.

Professionalism: As faculty, staff, and students interact in professional settings, they are expected to demonstrate professional behaviors as defined in the College’s conceptual framework. These professional commitments or dispositions are listed below:

* Engage in responsible and ethical professional practices
* Contribute to collaborative learning communities
* Demonstrate a commitment to diversity
* Model and nurture intellectual vitality

**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 this 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 [*Student Policy eHandbook*](http://www.auburn.edu/student_info/student_policies/) for more information on excused absences (http://www.auburn.edu/student\_info/student\_policies/).

**Make-Up Policy:**Arrangement to make up 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 from the end of the period of the excused absences.  Except in unusual circumstances, such as continued absence of the student or the advent of University holidays, a make-up exam will take place within two weeks from the time 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.  The format of the make-up exam will be (as specified by instructor).

Course contingency: If normal class and/or lab activities are disrupted due to illness, emergency, or crisis situation, the syllabus and other course plans and assignments may be modified to allow completion of the course. If this occurs, and addendum to your syllabus and/or course assignments will replace the original materials.

**9. Academic Honesty Statement:**

All portions of the Auburn University student academic honesty code (Title XII) found in the [*Student Policy eHandbook*](http://www.auburn.edu/student_info/student_policies/)will apply to this class.  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.

**10. Students with Disabilities Statement:**

“Students who need accommodations are asked to electronically submit their approved accommodations through AU Access and to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by e-mail. If you have not established accommodations through the Office of Accessibility, but need accommodations, make an appointment with the Office of Accessibility, 1228 Haley Center, 844-2096 (V/TT).”

**11. Justification for Graduate Credit:**

CTCT 7780/7786 (Research in Career and Technical Education) orients students to basic research procedures for research projects. Students will analyze research problems, synthesize research studies, and develop a proposal for a research study in their field of expertise in career and technical and adult education.