Department of Human Services
EPS 652.020 – Single Case Research Methods
Fall 2018

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Course Time & Location: Tues 4:30 – 7:00 McKibben 439
Office Hours: M 3-5; T 10-12; W 11-12
Credits: 3 hours

I. Course Description:
Characteristics and implementation of traditional single-subject research designs. This course will provide students with the knowledge to conduct research utilizing single-subject designs, with emphasis on causal inference.

Additionally, this course will prepare students to critically evaluate the peer-reviewed literature.

II. Intended Learning Outcomes/Goals/Objectives (Program/Student Learning Outcomes):
The complete listing of the standards associated with the PLOs, SLOs, assignments, and assessments are located on the PCOE website.

This course reflects the following core values of the College of Education:

- Academic excellence through critical, reflective, and creative thinking
- Life-long learning
- Collaboration and shared decision-making
- Openness to new ideas, to culturally diverse people, and to innovation and change
- Integrity, responsibility, diligence, and ethical behavior
- Service that enriches the community

The mission of the College of Education is to prepare competent, successful, caring, and enthusiastic professionals from diverse backgrounds dedicated to responsible service, leadership, social justice, and continued professional and intellectual development in an interconnected global society.

The goals of this course are closely aligned to those of the PCOE, which is to prepare competent, successful, caring and enthusiastic professionals dedicated to responsible service, leadership, and continued professional and intellectual development. As a preliminary step in this process, the knowledge obtained in this course will enable candidates to develop the requisite knowledge, skills, and dispositions necessary for admission into the PCOE Teacher Certification Program.

This course also supports the mission of the Human Services Department.

Program Learning Outcomes:

1. **Practical Knowledge**: The candidate will demonstrate a comprehensive knowledge of theory, practice, research, and assessment.
2. **Content Knowledge**: The candidate will demonstrate basic knowledge of the school psychology profession, specifically: assessment and treatment, prevention and intervention, applied psychological foundations, applied educational foundations, and ethical and legal considerations.
3. **Behavior Assessment**: The candidate will identify and operationally define current problem areas, strengths, and needs through assessment, and measure the results of decisions based on those evaluations.
4. **Pedagogical and Professional Knowledge, Skills, and Dispositions**: The candidate will demonstrate knowledge, skills, and professional work characteristics/ dispositions and effectively apply them in practice.

5. **Application of Principles and Procedures**: Assessment that demonstrates candidates’ knowledge, skills, and dispositions are applied effectively in practice.

**NASP Domains addressed by this course:**

**Domain 1: Data-Based Decision Making and Accountability**
- School psychologists have knowledge of varied models and methods of assessment and data collection for identifying strengths and needs, developing effective services and programs, and measuring progress and outcomes.
- As part of a systematic and comprehensive process of effective decision making and problem solving that permeates all aspects of service delivery, school psychologists demonstrate skills to use psychological and educational assessment, data collection strategies, and technology resources and apply results to design, implement, and evaluate direct interventions, psychological services, and programs.

**Domain 9: Research and Program Evaluation**
- School psychologists have knowledge of research design, statistics, measurement, varied data collection and analysis techniques, and program evaluation sufficient for understanding research and interpreting data in applied settings.
- School psychologists demonstrate skills to evaluate and apply research as a foundation for service delivery and, in collaboration with others, use various techniques and technology resources for data collection, measurement, and analysis to support effective practices at the individual, group, and/or systems levels.

**Domain 10: Legal, Ethical, and Professional Practice**
- School psychologists have knowledge of the history and foundations of school psychology; multiple service models and methods; ethical, legal, and professional standards; and other factors related to professional identity and effective practice as school psychologists.
- School psychologists demonstrate skills to provide services consistent with ethical, legal, and professional standards; engage in responsive ethical and professional decision-making; collaborate with other professionals; and apply professional work characteristics needed for effective practice as school psychologists, including respect for human diversity and social justice, communication skills, effective interpersonal skills, responsibility, adaptability, initiative, dependability, and technology skills.

**Student Learning Outcomes:**

1. Students will identify and demonstrate the principle methods of measurement and data collection used in single-case research designs. (**Empirical and Quantitative Skills**) (1, 9)
2. Students will demonstrate knowledge of the methods and formulae to determine inter-observer agreement and the accepted standards required for decision-making. (**Empirical and Quantitative Skills**) (1, 9)
3. Students will discuss issues in treatment integrity and the strengths and weaknesses of single-case procedures, in terms of internal and external validity. (**Communication; Empirical and Quantitative Skills; Professional Responsibility**) (9, 10)
4. Given various dependent and independent variables, students will identify the appropriate single-case design for organization and analysis. (**Communication; Empirical and Quantitative Skills**) (9)
5. Students will identify and discuss the issues in using single subject designs in professional practice. (**Communication; Empirical and Quantitative Skills**) (9, 10)
6. Students will demonstrate professional competence in developing a socially significant research question and developing a study proposal to answer the question. (**Communication; Critical Thinking; Social Responsibility**) (9, 10)
7. Students will evaluate peer-reviewed literature according to strength of design and writing. *(Critical Thinking, Communication, Empirical and Quantitative Skills) (1, 9, 10)*

8. Students will demonstrate professional competence in presenting single-case design research methodology and results. *(Communication; Empirical and Quantitative Skills; Professional Responsibility) (1, 9)*

### III. Course Assignments, Activities, Instructional Strategies, use of Technology (Core Curriculum requirements addressed in course presented in **Bold**; NASP domains presented in *italics*):

**Exam:** One exam will measure the mastery of content. The exam will include a variety of question types, including multiple choice, short answer, and short essays. *(Critical Thinking; Communication; Empirical and Quantitative Skills) (1, 9, 10)*

**Article Evaluations***: Students will select articles utilizing a variety of single case designs and complete evaluations following a given form. Article evaluations are due at the start of the class session following the discussion of the assigned design (refer to course schedule). *(Critical Thinking; Communication) (9)*

**Research Proposal***: Student will prepare a research project targeting an area of interest, approved by the instructor. The proposal should include the literature review of related single-case research and a rough draft of methods and the research design. *(Communication; Empirical and Quantitative Skills) (9, 10)*

**Peer Review***: Students will anonymously review proposals submitted for the School Psychology Research Event, using traditional review methods of peer-reviewed journals as a guide. Students will submit their reviews in letter format. *(Critical Thinking; Communication) (9)*

**Professional Presentation:** Given mock data from their proposed research, students will complete a poster presentation of their project, including an introduction, methods, results, and discussion at the School Psychology Research Event. This assignment is an extension of the Research Proposal assignment. *(Communication; Empirical and Quantitative Skills) (9, 10)*

**Participation and Attendance:** Students will be required to participate in discussions. To receive credit for attendance and participation, a minimum of one question or comment will be required for each class session that includes a discussion. For all other class sessions, attendance will be taken within the first 15 minutes of the class beginning. Attendance and participation will count towards 6% of final grades. *(Personal Responsibility; Communication; Teamwork)*

*Written assignments will be submitted to the appropriate Dropbox folder on D2L. Late assignments will receive a 5% reduction in possible points each day they are late. Day 1 begins the minute following the time assignments are due. Day 2 begins 24 hours following the time assignments are due, and so on. Assignments not submitted by midnight on the last day of finals will be graded and recorded as a 0.*

### IV. Evaluation and Assessments (Grading):

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
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<tbody>
<tr>
<td>Exam</td>
<td>50</td>
</tr>
<tr>
<td>Article Evaluations (5 points each)</td>
<td>20</td>
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<tr>
<td>Research Proposal</td>
<td>50</td>
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<tr>
<td>Peer Review</td>
<td>50</td>
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<tr>
<td>Professional Presentation</td>
<td>50</td>
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<tr>
<td>Participation and Attendance</td>
<td>15</td>
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**Total Points** 255
### V. Tentative Course Outline/Calendar:

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
<th>Assignments Due</th>
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<tbody>
<tr>
<td>Aug. 28</td>
<td>Syllabus/Introduction</td>
<td></td>
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<tr>
<td>Sept. 4</td>
<td>SCD Intro; Evaluating SCD Research</td>
<td>Horner et al., 2005; Kratochwill et al., 2010</td>
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<tr>
<td>Sept. 11</td>
<td>Withdrawal and Reversal Designs</td>
<td>Fudge et al., 2008; Rusch &amp; Kazdin, 1981; VanHouten &amp; Thompson, 2011</td>
<td>Article Eval 1</td>
</tr>
<tr>
<td>Sept. 25</td>
<td>Multi-element Designs</td>
<td>Barlow &amp; Hayes, 1979; Forbes et al., 2013; Hains &amp; Baer, 1989; Wacker et al., 1990</td>
<td>Article Eval 2 and 3</td>
</tr>
<tr>
<td>Oct. 2</td>
<td>Visual Representation of Data</td>
<td>Deochand, Costello, &amp; Fuqua, 2015; Dixon et al., 2009</td>
<td>Article Eval 4</td>
</tr>
<tr>
<td>Oct. 9</td>
<td>Other Design Considerations</td>
<td>Gresham, Gansle, &amp; Noell, 1993; Repp et al., 1976; Wolery, 1994</td>
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<tr>
<td>Oct. 16</td>
<td>Exam</td>
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<td>Oct. 23</td>
<td>Developing a Research Proposal: Topic/question/variables/lit review</td>
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<td>Oct. 30</td>
<td>Developing a Research Proposal: Methods</td>
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<td>Nov. 6</td>
<td>Peer Review: Submitting a manuscript</td>
<td></td>
<td>Research Proposal due 11/9, 5 pm</td>
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<tr>
<td>Nov. 13</td>
<td>Peer Review: Writing and responding to a peer review</td>
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<td>Peer Review due 11/15, 5 pm</td>
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<td>Nov. 20</td>
<td>Thanksgiving Break</td>
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<td>Nov. 27</td>
<td>Professional Presentations*</td>
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<td>*School Psychology Research Event 11/26 4-7 pm</td>
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<tr>
<td>Dec. 4</td>
<td>SCD Ethics</td>
<td>BCBA Professional and Ethical Compliance Code for Behavior Analysts; NASP Principles for Professional Ethics: Wolf, 1978</td>
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<tr>
<td>Dec. 11</td>
<td>Past and Contemporary Issues</td>
<td>Micheal, 1974; Poncy et al., 2016</td>
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*We will not meet in class on 11/27. Class requirements that week are to present at the School Psychology Research Event. You will be required to arrive 15 minutes early to set up your poster and attend the entire event. Absences must be approved by the instructor at least 1 week prior to the event.
VI. Readings (Required and recommended—including texts, websites, articles, etc.):

Text:
No required text

Articles:


**LiveText Statement:**

This course uses the LiveText data management system to collect critical assessments for students who are Perkins College of Education majors (undergraduate, graduate, and doctoral) or majors in other colleges seeking educator certification through the Perkins College of Education. Students who do not have an existing LiveText account will receive an access code via the SFA email system within the first week of class. You will be required to register your LiveText account, and you will be notified how to do this via email. If you forward your SFA e-mail to another account and do not receive an e-mail concerning LiveText registration, please be sure to check your junk mail folder and your spam filter for these e-mails.

If you have questions about obtaining or registering your LiveText account, call ext. 1267 or e-mail SFALiveText@sfasu.edu. Once LiveText is activated, if you have technical questions, call ext. 7050 or e-mail livetext@sfasu.edu. Failure to activate the account and/or submit the required assignment(s) within the LiveText system may result in course failure.

**VII. Course Evaluations:**

Near the conclusion of each semester, students in the Perkins College of Education electronically evaluate courses taken within the PCOE. Evaluation data is used for a variety of important purposes including:

1. Course and program improvement, planning, and accreditation;
2. Instruction evaluation purposes; and
3. Making decisions on faculty tenure, promotion, pay, and retention.

As you evaluate this course, please be thoughtful, thorough, and accurate in completing the evaluation. Please know that the PCOE faculty is committed to excellence in teaching and continued improvement. Therefore, your response is critical!
In the Perkins College of Education, the course evaluation process has been simplified and is completed electronically through MySF.

Although the instructor will be able to view the names of students who complete the survey, all ratings and comments are confidential and anonymous, and will not be available to the instructor until after final grades are posted.

VIII. Student Ethics and Other Policy Information: Found at https://www.sfasu.edu/policies

Class Attendance and Excused Absence: Policy 6.7

Regular, punctual attendance, documented participation, and, if indicated in the syllabus, submission of completed assignments are expected at all classes, laboratories, and other activities for which the student is registered. Based on university policy, failure of students to adhere to these requirements shall influence the course grade, financial assistance, and/or enrollment status. The instructor shall maintain an accurate record of each student's attendance and participation as well as note this information in required reports (including the first 12-day attendance report) and in determining final grades. Students may be excused from attendance for reasons such as health, family emergencies, or student participation in approved university-sponsored events. However, students are responsible for notifying their instructors in advance, when possible, for excusable absences. Whether absences are excused or unexcused, a student is still responsible for all course content and assignments. Students with accepted excuses may be permitted to make up work for up to three weeks of absences during a semester or one week of a summer term, depending on the nature of the missed work. Make-up work must be completed as soon as possible after returning from an absence.

Academic Accommodation for Students with Disabilities: Policy 6.1 and 6.6

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 936-468-3004 as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

Student Academic Dishonesty: Policy 4.1

Abiding by university policy on academic integrity is a responsibility of all university faculty and students. Faculty members must promote the components of academic integrity in their instruction, and course syllabi are required to provide information about penalties for cheating and plagiarism, as well as the appeal process.

Definition of Academic Dishonesty

Academic dishonesty includes both cheating and plagiarism. Cheating includes, but is not limited to:
- using or attempting to use unauthorized materials on any class assignment or exam;
- falsifying or inventing of any information, including citations, on an assignment;
- helping or attempting to help another in an act of cheating or plagiarism.

Plagiarism is presenting the words or ideas of another person as if they were one’s own. Examples of plagiarism include, but are not limited to:
- submitting an assignment as one's own work when it is at least partly the work of another person;
- submitting a work that has been purchased or otherwise obtained from the Internet or another source;
- incorporating the words or ideas of an author into one's paper or presentation without giving the author credit.

Penalties for Academic Dishonesty
Penalties may include, but are not limited to, reprimand, no credit for the assignment or exam, re-submission of the work, make-up exam, failure of the course, or expulsion from the university.

Student Appeals
A student who wishes to appeal decisions related to academic dishonesty should follow procedures outlined in Academic Appeals by Students (6.3).

Withheld Grades: Policy 5.5

At the discretion of the instructor of record and with the approval of the academic unit head, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F, except as allowed through policy [i.e., Active Military Service (6.14)]. If students register for the same course in future semesters, the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

Student Code of Conduct: Policy 10.4

Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program. Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This policy applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the iCare: Early Alert Program at SFA. Information regarding the iCare program is found at http://www.sfasu.edu/judicial/earlyalert.asp or call the office at 936-468-2703.

Additional Information:

To complete Certification/Licensing Requirements in Texas related to public education and other professional settings, you will be required to:

1. Candidates must undergo a criminal history background check prior to clinical teaching and prior to employment as an educator. The public school campuses are responsible for completing the criminal background check. A person who is enrolled or planning to enroll in a State Board for Educator Certification-approved educator preparation program or planning to take a certification examination may request a preliminary criminal history evaluation letter regarding the person’s potential ineligibility for certification due to a conviction or deferred adjudication for a felony or misdemeanor offense.

A Preliminary Criminal History Evaluation is a non-mandatory, non-binding evaluation of an individual’s self-reported criminal history. In addition, the agency obtains your name-based Texas criminal history information. The service is provided to the requestor for a non-refundable fee. The requestor will receive an evaluation letter by email from agency staff advising of potential ineligibility for educator certification.
You are eligible to request a Preliminary Criminal History Evaluation if:

- You enrolled or planning to enroll in an educator preparation program or
- You are planning to take a certification exam for initial educator certification, and
- You have reason to believe that you may be ineligible for educator certification due to a conviction or deferred adjudication for a felony or misdemeanor offense.

You are not eligible for a preliminary evaluation of your criminal history if you do not have a conviction or deferred adjudication for a felony or misdemeanor offense.

In addition, you must complete the fingerprinting process when you apply for certification. Participation in the evaluation does not preclude you from submitting to a national criminal history review at the time you apply for your educator certification. Your criminal history will be reviewed, and you may be subject to an investigation based on that criminal history, including any information you failed to submit for evaluation.

Additional information can be found at [https://tea.texas.gov/Texas_Educators/Investigations/Preliminary_Criminal_History_Evaluation-FAQs/](https://tea.texas.gov/Texas_Educators/Investigations/Preliminary_Criminal_History_Evaluation-FAQs/).

2. Provide one of the following primary ID documents: passport, driver's license, state or providence ID cards, a national ID card, or military ID card to take the TExES exams (additional information available at [www.texas.ets.org/registrationBulletin/](http://www.texas.ets.org/registrationBulletin/)). YOU must provide legal documentation to be allowed to take these mandated examinations that are related to certification/licensing requirements in Texas. If you do not have legal documentation, you may want to reconsider your major while at SFASU.

3. Successfully complete state mandated a fingerprint background check. If you have a history of criminal activity, you may want to reconsider your major while at SFASU.

For further information concerning this matter, contact Katie Snyder Martin at 936-468-1740 or snyderke1@sfasu.edu.