I. COURSE DESCRIPTION

The application of fundamental research methods to the design and development of a research proposal in kinesiology.

II. RATIONALE

The course provides students with the skills necessary to conduct a research study in kinesiology.

III. STATE ADOPTED PROFICIENCIES FOR TEACHERS AND/OR ADMINISTRATORS/COUNSELORS

N/A

IV. TExES COMPETENCIES & CAATE COMPETENCIES & PROFICIENCIES

N/A

V. COURSE OBJECTIVES AND LEARNING OUTCOMES

As a result of successfully completing this course, the student will be able to:

1. list and describe the major steps involved in conducting a research study.
2. describe the steps of the scientific method.
3. briefly define and state the major characteristics of each of five methods of research (historical, descriptive, correlational, causal-comparative, and experimental).
4. use the library and data sources effectively for gathering information (ERIC, CIJE, Education Index, Psychological Abstracts, Dissertation Abstracts International, Medline, other electronic data bases, etc.).
5. formulate a testable hypothesis.
6. describe ethical and legal considerations involved in conducting and reporting educational research.
7. describe the components of a research plan.
8. identify and describe four sampling techniques.
9. list the guidelines for test selection and administration.
10. define, describe, and utilize descriptive and inferential statistics.
11. utilize the computer for data analysis using SPSS, Excel, or other data analysis software.
12. develop a research prospectus using form and style as outlined by the American Psychological Association.
13. explain the importance of being a responsible consumer of research information.

VI. COURSE TOPICS

1. Introduction to research in physical activity.
2. Developing the problem and using the literature.
3. Presenting the problem.
4. Formulating the method.
5. Ethical issues in research and scholarship.
6. Becoming Acquainted With Statistical Concepts
7. Statistical Issues in Research Planning and Evaluation
8. Relationships Among Variables
9. Differences Among Groups
10. Nonparametric Techniques
11. Measuring Research Variables
12. Historical Research in Physical Activity
13. Philosophic Research in Physical Activity
14. Research Synthesis (Meta-Analysis)
15. The Survey
16. Other Descriptive Research Methods
17. Physical Activity Epidemiology Research
18. Experimental and Quasi-Experimental Research
19. Qualitative Research
20. Completing the Research Process
21. Ways of Reporting Research

VII. INSTRUCTIONAL METHODS AND ACTIVITIES

A. Traditional Experiences: readings, exams.
B. Online Experiences: instructor presentations, written assignments, videos, interactive websites, online library, quizzes, exams.

VIII. EVALUATION AND GRADE ASSIGNMENTS

COURSE REQUIREMENTS

1. Successful completion of quizzes and exams.
2. Complete all written assignments.
3. Participate in all class activities.
4. Demonstrate computer proficiency through the use WebCT, word processors, e-mail, and the Internet.
5. Each student must submit an acceptable research proposal (grade of 70% or better) in order to receive a passing grade (C or better) in the course.

EVALUATION

1. Tests (2) 100 pts. ea. 25%
2. Quizzes (10) 15%
3. Homework/Assignments 10%
4. Research Proposal 50%

Total 100%

GRADING SCALE
90-100% A
80-89% B
70-79% C
60-69% D
59% or less F

DEFINITION OF GRADES
Grades are distributed according to the following criteria:

A Your work obviously stands out from that of the normal body of students. You serve as a role model for how the assignment should be carried out. You are creative and energetic, expanding the boundaries of the assignment.

B You exceed expectations. Your preparation and delivery serve as examples of the proper concepts and practices. All of the required material is plainly in evidence, and your work is fluid and smooth.

C You complete an assignment that the average student, working the average amount of time should be expected to prepare. Your work is complete but in no way exceptional or deserving of extra attention.

D You demonstrate that you understood the assignment, but constructed and presented the material in a less than satisfactory way. Your performance was sub-standard relative to normal expectations.

F You either fail to do the assignment or your work is too far below acceptable standards to merit any consideration. You either completely miss the point of the assignment or disregard critical elements of it.
IX. COURSE SCHEDULE AND POLICIES

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Introduction to research in physical activity</td>
</tr>
<tr>
<td>2.</td>
<td>Developing the problem and using the literature</td>
</tr>
<tr>
<td>3.</td>
<td>Developing the hypothesis</td>
</tr>
<tr>
<td>4.</td>
<td>Formulating the methods</td>
</tr>
<tr>
<td>5.</td>
<td>Ethical issues in research and scholarship</td>
</tr>
<tr>
<td>6.</td>
<td>Measuring Research Variables</td>
</tr>
<tr>
<td>7.</td>
<td>Becoming Acquainted With Statistical Concepts</td>
</tr>
<tr>
<td>8.</td>
<td>Historical Research in Physical Activity</td>
</tr>
<tr>
<td>9.</td>
<td>Research Synthesis (Meta-Analysis)</td>
</tr>
<tr>
<td>10.</td>
<td>Experimental and Quasi-Experimental Research</td>
</tr>
<tr>
<td>11.</td>
<td>Correlational research</td>
</tr>
<tr>
<td>12.</td>
<td>Causal-comparative research (ex post facto)</td>
</tr>
<tr>
<td>13.</td>
<td>Qualitative Research</td>
</tr>
<tr>
<td>14.</td>
<td>Completing the Research Process</td>
</tr>
<tr>
<td>15.</td>
<td>Ways of Reporting Research</td>
</tr>
</tbody>
</table>

ATTENDANCE POLICY
Students are required to punctually attend all class meetings (when applicable) and complete all assignment deadlines. Excused absences are limited to participation in a TAMUCC sanctioned event or participation in a religious holy day as outlined in the University catalog. Any assignment, quiz, or test missed due to a TAMUCC sanctioned event must be completed prior to the absence. Coursework, assignments, and quizzes may not be made up due to tardiness. **Consistent attention to assignment instructions and submission deadlines is critical to the successful completion of this course.**

STUDENT CONDUCT
Professional behavior is expected of all students. Inappropriate course conduct (cursing,
disruption, etc.) may result in a reduced final grade or failure of the course.

NOTE: Please be aware that no food or drink (including water) is allowed in the lab. Please leave all food or drink outside of the classroom.

NOTE: Printing online tests and/or quizzes is strictly prohibited.

X. TEXTBOOK


XI. BIBLIOGRAPHY


XII. GRADE APPEALS

As stated in University Rule 13.02.99.C2, Student Grade Appeals, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to
first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Rule 13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules Web site at http://www.tamucc.edu/provost/university_rules/index.html. For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.

**Academic Honesty**

University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, forgery, or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.)

Disciplinary action for academic misconduct is the responsibility of the faculty member assigned to the course. The faculty member is charged with assessing the gravity of any case of academic dishonesty, and with giving sanction to any student involved. Penalties that may be applied to individual cases of academic dishonesty include one or more of the following:

1. Written reprimand;

2. Requirement to re-do work in question;

3. Requirement to submit additional work;

4. Lowering of grade on work in question;

5. Assigning grade of “F” to work in question;

6. Assigning grade of “F” for course;

7. Recommendation for more severe punishment.

If the faculty member determines that assigning a grade of “F” to the course is the appropriate penalty and this disciplinary action occurs prior to the deadline for dropping courses, the student forfeits his/her right to drop the course in question.

The faculty member may file a record of cases of academic dishonesty, including a description of the disciplinary action taken, along with any materials involved, with his or her college dean and the Office of Student Affairs. The office of the academic dean of the college in which the offense took place will maintain records of all cases of academic dishonesty reported for a period of not more than two years.
Any student who has been penalized for academic dishonesty has the right to appeal the judgment or the penalty assessed (See XII above).

XIII. DISABILITIES ACCOMMODATIONS

Americans with Disabilities Act (ADA) - The ADA is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disability. If you believe you have a disability requiring an accommodation, please call or visit Disability Services at (361) 825-5816 in Driftwood 101.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

---

KINE 5307 - Research Design in Kinesiology

Syllabus Acknowledgment Form

I, (print name)____________________________________________, certify by my signature that I have read and understand the class policies that have been presented in the class syllabus for KINE 5307-Research Design in Kinesiology at Texas A&M University-Corpus Christi.

Signature ______________________________________ Date ____________________