**KINE 7010 - RESEARCH METHODS IN PHYSICAL ACTIVITY (3 cr.)**

**Instructor**

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Office hours: Daily, 2-3 PM . Other times by appointment.

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| --- | --- | --- | --- | --- | --- |
|   | **Lecture** |  | **Lab** |  | **Reading** |
| 8/21 | First class meeting | 8/23 | Data collection – coin challengeConcept map | 8/25 |   |
| 8/28 | What is research?[LEC\_1](https://auburn.instructure.com/courses/1055515/files/107713553/download?verifier=gIjlrOxEyaMfWfEQlUPBnpoRyscWuR9gwaI6u6sD&wrap=1)Preview the documentView in a new window | 8/30 | Lab 1Conceptualizing research | 9/1 | Reading 1[Need a Good Research Question? No Problem!](https://auburn.instructure.com/courses/1055515/files/112042246/download?verifier=RQthXfRgoCOyiQLniPa2e2CCTptf6Nth1TQFXwdK&wrap=1)Preview the documentView in a new windowWeimo Zhu |
| 9/4 | no class | 9/6 | Reviewing the literature[LEC\_2](https://auburn.instructure.com/courses/1055515/files/112209096/download?verifier=qKh98pIXe2JWt6L2yjLZp6GSYdspag87kQFN7Vuz&wrap=1)Preview the documentView in a new window | 9/8 |   |
| 9/11 | Ethics and IRB[LEC\_3](https://auburn.instructure.com/courses/1055515/files/112209180/download?verifier=txlOlKYnATTYQSB4fvC37HnbtKUXRxGfaC5JKO6M&wrap=1)Preview the documentView in a new window | 9/13 | Lab 3Unethical scenarios | 9/15 | Reading 2[Human Subjects Protection](https://auburn.instructure.com/courses/1055515/files/112042243/download?verifier=f1Ttzt3CWPFos0IHw1UVan8cAQjRp8WX68JN5wUU&wrap=1)Preview the documentView in a new windowMehlman & Berg |
| 9/18 | Research designs[LEC\_4](https://auburn.instructure.com/courses/1055515/files/112209241/download?verifier=bbPT69Gaasr8UakIkidWVN4Ri6OIevXzAAVZL0MW&wrap=1)Preview the documentView in a new window | 9/20 | Lab 4Forms of research | 9/22 | Reading 3[A Study of Variously Active Older Adult Men](https://auburn.instructure.com/courses/1055515/files/112042232/download?verifier=L0n6cSmEVT0ea7uoOuJyYlVT86QaREC2b6YbLZKT&wrap=1)Preview the documentView in a new windowChristensen  et al. |
| 9/25 | Measuring relationships[LEC\_5](https://auburn.instructure.com/courses/1055515/files/112209367/download?verifier=WbtmE09HLhnfb6nK2SrLGycRfpzft9NubLTAwEnk&wrap=1)Preview the documentView in a new window | 9/27 | Lab 5Cause and effect | 9/29 | Reading 4 |
| 10/2 | Measuring relationships 2LEC\_6 | 10/4 | Lab 6Correlations | 10/6 | Reading 5 |
| 10/9 | Measuring differences 1[LEC\_7](https://auburn.instructure.com/courses/1055515/files/112209939/download?verifier=1sMO66njRxlUbwFBCdbyPP5ujA4c0qo0Tjip0VAk&wrap=1)Preview the documentView in a new window  | 10/11 | Lab 7Quantifying differences | 10/13 | Fall break |
| 10/16 | Measuring differences 2 | 10/18 |   | 10/20 | Reading 6 |
| 10/23 | True experiments[LEC\_9](https://auburn.instructure.com/courses/1055515/files/112210137/download?verifier=W476TtdrFR5zKWksDLdvpgvVm7MVSAzihxjhloOe&wrap=1)Preview the documentView in a new window | 10/25 |   | 10/27 | Reading 7 |
| 10/30 | Reliability and validity[LEC\_10](https://auburn.instructure.com/courses/1055515/files/112210326/download?verifier=bNgTGXxHRSxJO0Agz37bDBCXa6L6xwgGrl6zSzbh&wrap=1)Preview the documentView in a new window | 11/1 | Lab 8Reliability and validity | 11/3 | Reading 8 |
| 11/6 | Data collection[LEC\_11](https://auburn.instructure.com/courses/1055515/files/112210619/download?verifier=i5VShNPF57SuqksXcmPoaNJ4THOtdVKFJoEpxNYy&wrap=1)Preview the documentView in a new window | 11/8 | Lab 9Sources of error | 11/10 | Reading 9 |
| 11/13 | The research paper[LEC\_12](https://auburn.instructure.com/courses/1055515/files/107713573/download?verifier=QAcpcvZLpThThGY6SUu17nHKUk5KIP2Ht34DXHeL&wrap=1)Preview the documentView in a new window | 11/15 | Lab 10Parts of a research paper | 11/17 | Reading 10 |
| 11/20 | Thanksgiving | 11/22 | Thanksgiving | 11/24 | Thanksgiving |
| 11/27 | Abstracts and references[LEC\_13](https://auburn.instructure.com/courses/1055515/files/107713572/download?verifier=s8m6S55f4yArlcRfvX6y0UP2I1WiEwGTAX2qtY7H&wrap=1)Preview the documentView in a new window[LEC\_14](https://auburn.instructure.com/courses/1055515/files/107713586/download?verifier=n56x1HLSeiJ9rYEAY81siK2WTYzC3C9boZ6ngfPU&wrap=1)Preview the documentView in a new window | 11/29 | Lab 11AbstractsLab 12References | 12/1 |   |
| 12/4 | Research critique | 12/6 |   | 12/8 |   |

**Assessment**

Lecture quizzes (10%)

Lab reports (20%)

Reading quizzes (20%)

Mid-term exam (20%)

Final exam (30%)

**Grading**

A = 90+

B=80-89

C=70-79

D=60-69

F<60

**Class Policies**

Attendance: It is expected that students taking a graduate class will attend every class meeting, will arrive on time, and will actively participate in each class. Absences and late arrivals will not be tolerated. If you must miss class because of illness or other emergency, please try to notify the instructor in advance. You are still responsible for any work missed during an absence.

Plagiarism: All exams, research abstracts library assignment, faculty biographies, and any other written work must reflect the individual efforts of each student. Please refer to the Tiger Cub for information regarding academic honesty.

Cell Phones: As a courtesy to everyone, please turn off your cell phone during class. If you have a compelling reason for leaving your phone on, please let me know at the beginning of class. Also, please do not text–message during class.

Best Work: Students are expected to show evidence of thorough reading of assigned textbook chapters and supplemental readings. Please take pride in your work and be motivated to do your best work in this class; if you are, you will gain the maximum benefit from the course.

Unannounced Quizzes: There will be no unannounced quizzes in this class.

Honesty Code: The University Academic Honesty Code and the Tiger Cub Rules and Regulations pertaining to Cheating will apply to this class.

Professionalism: As faculty, staff, and students interact in educational settings, they are expected to demonstrate professional behaviors as defined in the College of Education’s conceptual framework. These professional commitments or dispositions are as follows: 1) engage in responsible and ethical practices, 2) contribute to collaborative learning communities, 3) demonstrate a commitment to diversity, and 4) model and nurture intellectual vitality.

Accommodations: Students who need accommodations are asked 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. Bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting.

If you do not have an Accommodation Memo but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Haley Center, 844-2096 (V/TT).

It is the student’s responsibility to inform the instructor of any medical conditions or allergies that may affect in class participation or performance. Students with any health problems should have completed a Health Referral Form.

Attendance: The material and experiences in this class are important and if you are not in class, you cannot take an active role as a student. Class attendance and appropriate participation is paramount to your success as a student.

If an unusual condition such as a serious illness results in this situation (8 total absences) students are encouraged to consult the AU Bulletin and/or an academic adviser in their college to determine if they meet university guidelines for requesting withdrawal from the course.