**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 challenge  Concept map | 8/25 |  |
| 8/28 | What is research?  [LEC\_1Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/107713553/download?verifier=gIjlrOxEyaMfWfEQlUPBnpoRyscWuR9gwaI6u6sD&wrap=1) | 8/30 | Lab 1  Conceptualizing research | 9/1 | Reading 1  [Need a Good Research Question? No Problem!Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112042246/download?verifier=RQthXfRgoCOyiQLniPa2e2CCTptf6Nth1TQFXwdK&wrap=1)  Weimo Zhu |
| 9/4 | no class | 9/6 | Reviewing the literature  [LEC\_2Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112209096/download?verifier=qKh98pIXe2JWt6L2yjLZp6GSYdspag87kQFN7Vuz&wrap=1) | 9/8 |  |
| 9/11 | Ethics and IRB  [LEC\_3Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112209180/download?verifier=txlOlKYnATTYQSB4fvC37HnbtKUXRxGfaC5JKO6M&wrap=1) | 9/13 | Lab 3  Unethical scenarios | 9/15 | Reading 2  [Human Subjects ProtectionPreview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112042243/download?verifier=f1Ttzt3CWPFos0IHw1UVan8cAQjRp8WX68JN5wUU&wrap=1)  Mehlman & Berg |
| 9/18 | Research designs  [LEC\_4Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112209241/download?verifier=bbPT69Gaasr8UakIkidWVN4Ri6OIevXzAAVZL0MW&wrap=1) | 9/20 | Lab 4  Forms of research | 9/22 | Reading 3  [A Study of Variously Active Older Adult MenPreview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112042232/download?verifier=L0n6cSmEVT0ea7uoOuJyYlVT86QaREC2b6YbLZKT&wrap=1)  Christensen  et al. |
| 9/25 | Measuring relationships  [LEC\_5Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112209367/download?verifier=WbtmE09HLhnfb6nK2SrLGycRfpzft9NubLTAwEnk&wrap=1) | 9/27 | Lab 5  Cause and effect | 9/29 | Reading 4 |
| 10/2 | Measuring relationships 2  LEC\_6 | 10/4 | Lab 6  Correlations | 10/6 | Reading 5 |
| 10/9 | Measuring differences 1  [LEC\_7Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112209939/download?verifier=1sMO66njRxlUbwFBCdbyPP5ujA4c0qo0Tjip0VAk&wrap=1) | 10/11 | Lab 7  Quantifying differences | 10/13 | Fall break |
| 10/16 | Measuring differences 2 | 10/18 |  | 10/20 | Reading 6 |
| 10/23 | True experiments  [LEC\_9Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112210137/download?verifier=W476TtdrFR5zKWksDLdvpgvVm7MVSAzihxjhloOe&wrap=1) | 10/25 |  | 10/27 | Reading 7 |
| 10/30 | Reliability and validity  [LEC\_10Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112210326/download?verifier=bNgTGXxHRSxJO0Agz37bDBCXa6L6xwgGrl6zSzbh&wrap=1) | 11/1 | Lab 8  Reliability and validity | 11/3 | Reading 8 |
| 11/6 | Data collection  [LEC\_11Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/112210619/download?verifier=i5VShNPF57SuqksXcmPoaNJ4THOtdVKFJoEpxNYy&wrap=1) | 11/8 | Lab 9  Sources of error | 11/10 | Reading 9 |
| 11/13 | The research paper  [LEC\_12Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/107713573/download?verifier=QAcpcvZLpThThGY6SUu17nHKUk5KIP2Ht34DXHeL&wrap=1) | 11/15 | Lab 10  Parts of a research paper | 11/17 | Reading 10 |
| 11/20 | Thanksgiving | 11/22 | Thanksgiving | 11/24 | Thanksgiving |
| 11/27 | Abstracts and references  [LEC\_13Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/107713572/download?verifier=s8m6S55f4yArlcRfvX6y0UP2I1WiEwGTAX2qtY7H&wrap=1)  [LEC\_14Preview the documentView in a new window](https://auburn.instructure.com/courses/1055515/files/107713586/download?verifier=n56x1HLSeiJ9rYEAY81siK2WTYzC3C9boZ6ngfPU&wrap=1) | 11/29 | Lab 11  Abstracts  Lab 12  References | 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.