



# MISSISSIPPI STATE UNIVERSITY™

## COLLEGE OF EDUCATION

Department of Kinesiology Course Syllabus

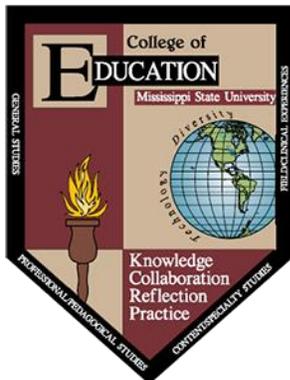
### PE 4173 Test & Measurement

**Credit Hours:** 3 credit hours

**Method of Instruction:** C = Lecture

**Catalog Description:** Three hours lecture. This course is designed to provide knowledge of criteria and procedure of a testing program and develop an ability to perform a testing. The contents will include criteria of selection, evaluation, and the administration of tests as well as statistical procedures necessary for a testing. Assessment and evaluation of social efficiency, physical education skills, appreciations, and other factors for physical education program will be studied.

#### College of Education Conceptual Framework



The faculty in the College of Education at Mississippi State University are committed to assuring the success of students and graduates by providing learning opportunities that are continually improved as society, schools, and technology change. The organizing theme for the conceptual framework for the College of Education at Mississippi State University is educational professionals - dedicated to continual improvement of all students' educational experiences. The beliefs that guide program development center on the tenets of knowledge, collaboration, reflection, and practice. For additional information, please visit <https://www.educ.msstate.edu/about/framework/>

#### Course Objectives

Upon completion of this course, students will be able to competently:

1. Explain the relationships among goals, objectives, tests, and evaluation (CFPO 3; INTASC 1)
2. Demonstrate an understanding of the impact of pre-service teacher attitudes on test and measurement protocols (CFPO 3, 4; INTASC 1),
3. Explain physical fitness, psychomotor, cognitive and affective domains and how each domain can be measured (CFPO 3, 4; INTASC 1, 8),
4. Differentiate among validity, reliability, and objectivity and apply these concepts to test construction and evaluation (CFPO 2, 8; INTASC 1),
5. Demonstrate the ability to do simple word processing, spreadsheet applications and use EXCEL as a grade management program (CFPO 4, 7; INTASC 1),
6. Identify important criteria of a good test and procedures for good test administration (CFPO 3, 4; INTASC 1; CRT 13.1),
7. Identify, select, and perform appropriate measurement and evaluation for a population group in various physical education, exercise science, coaching, athletic training, and health areas (CFPO 6, 10; CRT 1.1).

## Detailed Course Outline/Topics Covered in the Course

### Part 1

1. An introduction to measurement and evaluation (3 hours)
2. Linking program development with measurement and evaluation (3 hours)
3. Criteria for test selection (3 hours)
4. Alternative assessments in PE (3 hours)
5. Task presentations (3 hours)

### Part 2

6. Measuring health-related physical fitness (3 hours)
7. Measuring psychomotor skills (3 hours)
8. Measuring cognitive knowledge (3 hours)
9. Measuring affective behaviors (3 hours)
10. Task Presentations (3 hours)

### Part 3

11. Introduction to basic statistics (3 hours)
12. Describing data (3 hours)
13. Percentiles ranks (3 hours)
14. Correlations (3 hours)
15. Inferential statistics (3 hours)

Total contact hours: 45 hours

## Text(s)/Course Materials

Lacy, Alan C. (2014). *Measurement and Evaluation in Physical Education and Exercise Science* (7th Edition). Pearson.

## Description of Instruction

Lectures. An abbreviated version of the lecture notes will be available. You must attend lecture to obtain the necessary information. In addition to lectures and direct discussion, there will be article reviews, presentations, take-home assignments, and in-class assignments to take advantage of opportunities that may arise. Canvas will be available for this course. Announcements, assignments, and grades will be posted regularly. You are responsible to download all available materials as needed for use in class.

## Mississippi State University Honor Code

"As a Mississippi State University student I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do."

*Upon accepting admission to Mississippi State University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor Code. Students will be required to state their commitment on examinations, research papers, and other academic work. Academic dishonesty will not be tolerated and will be dealt with according to MSU policy. Ignorance of the rules does not exclude any member of the MSU community from the requirements or the processes of the Honor Code.*

For additional information visit: <http://students.msstate.edu/honorcode>

## Technology

Students will require to bring a laptop with Excel <MSOffice Excel> to be used for in-class activities, take-home assignments and exams. Students will submit assignments via Canvas.

## Diversity

As the objectives and topics presented previously indicate, diversity (e.g., ethnicity, gender, culture) will be addressed throughout the course in relation to lectures, assigned readings, and discussions.

## Accommodations for Students with Disabilities

Students with disabilities in need of accommodations to meet the expectations of this course are encouraged to bring this need to the attention of the instructor and should register with the Office of Student Support Services as soon as possible. The Office of Student & Disability Support Services is located in O1 Montgomery Hall and can be reached via telephone at (662) 325-3335.

<http://www.sss.msstate.edu>.

## Field Component

This course does not include a field experience.

## Evaluation of Student Progress

### Student Activities/Assessments:

1. **Exams** - There will be three exams for this course, which will consist of multiple choice and T/F questions. The exams are worth 100 points each. Exams allow you to demonstrate your understanding and mastery of course concepts. Exams will be based on the material, class lectures and in-class activities/discussions. You should be able to understand course material and apply the information in new situations to perform well on the exams. You will not be allowed to take any exams late without prior notification of the instructor.
2. **Homework** - There will be six homework assignments. The purpose of this assignment is to provide a real-world scenario in which to give you practical experience in test evaluation/construction. Students will enter data on the computer, run the analysis with elementary statistical procedure, and interpret the results in a report. Your report should be typewritten with the computer printout of the results and be submitted through Turnitin. If you miss the deadline, you will earn zero points for that activity. No make-up assignments will be coordinated. Detailed information for each will be given later in class.
3. **Group Project**
  - A. Group presentation
    - In groups of 2-3, select a test in the cognitive, affective, or psychomotor domains of physical education.
    - Present the following information about the selected test: name, purpose, reliability, validity, preparation of administration (i.e., equipment, facility, manpower, and time for a PE class with about 30 students), administrative procedures, scoring procedures, and list of the advantages/disadvantages of the test.
    - Demonstrate to the class on how to administer and follow the selected test.
    - Collect data using the selected test with some of the classmates from the class.
    - All group members must be actively involved in performing the tasks, presentation, and data collection.
  - B. Project Report
    - A typed written assignment based on the presentation, **results of data analysis, and interpretation of results** (e.g., use the results to inform teaching learning, and/or program development) should be submitted by each group.
4. **Article Critique**
  - A. A team of two or three students will be responsible for a critical, professional paper about an assigned journal article. Team assignments and presentation dates will be assigned later. The articles are available on closed reserve at the Library and also can be accessed via the Internet.

Materials and key concepts from each of these readings will be included on the exams.

- B. PowerPoint must be used for the presentation which should take a minimum of 10-15 minutes with an additional 5 minutes for questions which the team should anticipate and prepare to answer quickly and succinctly. The PowerPoint presentations must be submitted to the Blackboard 48 hours before the presentation date. A single grade will be given to each team with each member earning the same grade. Please dress in professional attire when making your presentation.

Assessment/Activity		Score	%
Test Project Presentation	1 x 20 points	20 points	4%
Final Paper	1 x 40 points	40 points	8%
Article Critique	1 x 20 points	20 points	4%
Homework	6 x 20 points	120 points	24%
Exams	3 x 100 points	300 points	60%
<b>TOTAL</b>		<b>500 points</b>	<b>100%</b>

#### Grading Scale

90% - 100% = A

80% - 89.99% = B

70% - 79.99% = C

60% - 69.99% = D

0% - 59.99% = F

#### Attendance Policy

In accordance with university policy (AOP 12.09), students are expected to attend all classes. AOP 12.09 also defines what is an excused absence. The student must inform the instructor and provide appropriate documentation as soon as s/he returns to class.

If a student were absent, each class period missed results in a loss of 2 points from participation grade. Excessive absenteeism will affect your grade because of the points missed during in-class assignments, guest lecture points, or in the sense that an examination will be constructed from the concepts and ideas discussed in class as well as those presented in the readings. If you must be absent for an emergency, please make an arrangement with the instructor prior to absence to make up missed work. The student may promptly make up missed work due to absence because of participation in approved University activities, University programs (that the student is required to attend), or when absence is required by order of a qualified physician or legal representative. The student must contact the instructor on the first day the student returns to class for makeup work.

Participation includes active engagement in classroom, discussion, small group activities and questions based on the readings or lecture materials. Students are expected to attend every class with positive attitude and participate actively in class. If you are absent during a participation assignment, you must provide documented proof of your absence to make up. There is no make-up for missing participations without a documented excuse. You should attend every class so you do not miss a participation assignment.

## **Title IX Policy**

MSU is committed to complying with Title IX, a federal policy that prohibits discrimination, including violence and harassment, based on sex. This means that MSU's educational programs and activities must be free from discrimination based on sexual orientation, sexual harassment, and other forms of sexual misconduct. If you or someone you know has experienced discrimination, sexual violence and/or harassment by any member of the University community, you are encouraged to report the conduct to MSU's Director of Title IX IEEO Programs at 325-8124 or by e-mail to [titleix@msstate.edu](mailto:titleix@msstate.edu). Additional resources are available at <http://www.msstate.edu/web/security/title9-12.pdf>, and at <http://students.msstate.edu/sexualmisconduct/>.

## **University Safety Statement**

Mississippi State University values the safety of all campus community members. Students are encouraged to register for Maroon Alert texts and to download the Everbridge App. Visit the Personal Information section in Banner on your mystate portal to register. To report suspicious activity or to request a courtesy escort via Safe Walk, call University Police at 662-325-2121, or in case of emergency, call 911. For more information regarding safety and to view available training resources, including helpful videos, visit [ready.msstate.edu](http://ready.msstate.edu).

## **Mississippi Educator Code of Ethics**

This code shall apply to all persons licensed according to the rules established by the Mississippi State Board of Education and protects the health, safety and general welfare of students and educators. Ethical conduct is any conduct which promotes the health, safety, welfare, discipline and morals of students and colleagues. Unethical conduct is any conduct that impairs the license holder's ability to function in his/her employment position or a pattern of behavior that is detrimental to the health, safety, welfare, discipline, or morals of students and colleagues. Any educator or administrator license may be revoked or suspended for engaging in unethical conduct relating to an educator/student relationship (Standard 4). Additional information on the Mississippi Educator Code of Ethics 10 standards is available at [https://www.mdek12.org/sites/default/files/documents/code-of-ethics\\_final.pdf](https://www.mdek12.org/sites/default/files/documents/code-of-ethics_final.pdf)

## **Mississippi College and Career-Ready Standards**

Content standards outline the skills and knowledge expected of students from grade to grade and subject to subject. In addition to the Mississippi College and Career-Readiness Standards, the Mississippi Department of Education has developed a wide variety of training materials for educators and administrators across the state.

## **Bibliography**

Lacy Alan C. (2014). *Measurement and Evaluation in Physical Education and Exercise Science* (7th Edition). Pearson.