

KES – 5314
Diagnostic Tests and Measurements
Fall 2015 - Online

Instructor: Jim Hector, Ed.D.

Class location: Blackboard online

Office Location: email me

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****You may call (leave me a voicemail) or text anytime from 9am – 7pm**

Required Text: none at this time use PPTs and Handouts in Blackboard course materials

Course Description and Purpose: The study of measurement theory, statistics, and instruments used to collect data and procedures for data analysis specific to exercise and sports. Reliability and validity are the MOST IMPORTANT issues in kinesiology, sport, and exercise science. We will relate all of our work to these issues so that you can make valid decisions in kinesiology, exercise and sport science, and athletics.

Program Outcomes: Degree candidates in the M.S. program in Health and Human Performance program will be able to:

1. demonstrate content knowledge in physiology, nutrition, sports law, test and measurements, motor learning, group dynamics and health and human behavior necessary for successful performance in their field.
2. conduct research using appropriate methods, analysis, and dissemination of results.
3. promote authentic learning, social and emotional development, and a commitment to social justice in their field.

Course Objectives:

- Students will demonstrate knowledge and abilities to utilize formative and summative fitness, skill, cognitive, and affective measurement and evaluation techniques appropriate for assessing participants in kinesiology and sports programs.
- Students will be able to utilize descriptive and inferential statistics to make decisions.
- Students will demonstrate abilities to assess individual achievement of psychomotor, cognitive, and affective objectives.
- Students will demonstrate understanding of the principles involved in assessment of groups and effective physical education programs.
- Students will demonstrate knowledge and understanding of the statistical procedures used in the measurement and evaluation process.

- Students will demonstrate understanding of the principles of reliability, objectivity, and validity when making evaluative decisions about individuals and groups.
- Students will demonstrate sound decisions when choosing fitness tests for adults and children.
- Students will demonstrate understanding of the principles associated with sound cognitive test development, utilization, and revision.
- Students will demonstrate understanding of the use of sound psychometric principles when using measurement in the affective domain.

Instructional Process:

All online!

Methods of Evaluation:

Grading is based on cumulative points of all assignments.

Final Exam	350 pts
5 Weekly Discussions @ 60 pts ea	300 pts
<u>5 Assignments @ 70 pts ea.</u>	<u>350 pts</u>
Total Points	1000 pts

Explanation of Assignments:

Final: Tests will be a combination of objective, short answer, application of terminology and formula, and answering calculations. The final exam will be comprehensive. You can use your notes & calculator. You will print the exam and take it by hand. You will need to find a way to scan your written responses and upload them to the final Exam assignment tab in a word attachment (so I can see all of your work...show your work). You can begin working on the exam anytime and do bits and pieces of it as we learn. Final exam will be available in course materials Wed March 4th is Due midnight 3/13.

Discussion questions: Each week there will be a discussion question posted under the discussion tab for you to respond to by **Midnight Friday night**. To respond to the discussion you click on the hyperlink to the discussion and then click on create new thread. Put your last name and the week in the subject line (eg. LathamWeek1). You can respond directly in the message area, however, I suggest you type your response in a word document, spell check, then copy and paste it into the message area. You can upload your response as an attachment, but please **ALSO** copy and paste it into the message area so we do not have to open an attachment to read your post. Each discussion post is worth 40 points. 10 points will be deducted for each day it is late. 10 points will be deducted for not following the instructions above, do follow all instructions in the directions of the discussion.

Responses to others: Under each discussion post you must respond to another classmate's original discussion post. The response is worth 20 points (so a total of 60 points for class discussion is available for you to earn each week) and is due by **Sunday Midnight** each week. The response must be more than "good job", "I like what you said", etc., it must be a substantial response that would be

as if you were having a discussion on the topic in class. A substantial response would include, but not limited to: adding to the discussion with further information you find (cite your source), asking relevant questions, as well as critiquing in a positive way the post. ALWAYS spell check and edit your responses. These should be academic responses and not chat room or informal language. Do be respectful of others, do use proper language – do NOT hurt others feelings. To respond to another’s post, click on their post and reply. Title the subject of your response with your last name and “response to _____ week 1 post” (eg. Latham’s response to Henderson’s Week 1 post).

Homework Assignments: Click on the hyperlink (title of the assignment) in the assignment tab, read the directions completely, you will do the assignment in a Word (MUST BE MICROSOFT WORD...no other format is accepted) document and attach the file in the assignment submission section, then click submit. Follow all instructions and mind the due dates. I will accept late work with 10 point deductions for each day past the due date.

TOPIC OUTLINE

Week 1	<ul style="list-style-type: none"> – Basic Tools in Measurement and Evaluation Introduction to Class Class overview and responsibilities Introduction to Tests and Measurements <ul style="list-style-type: none"> Terminology Domains Descriptive Statistics and the Normal Distribution <ul style="list-style-type: none"> SPSS Central tendency Variability Descriptive Statistics/the Normal Distribution <ul style="list-style-type: none"> Standard scores Z table
Week 2	Correlation
Week 3	Correlation & Prediction
Week 4	Inferential Stats

Week 5	Inferential Stats Part II
Week 6	Final