

EXRS 3830 Measurement and Evaluation in Exercise Science  
(Phys. Educ. Section)

I. Course Description

Methods in measuring and evaluating physical performance, knowledge, and attitudes; procedures for evaluating tests and their results; data analysis techniques.

II. Prerequisite

Permission of major.

III. Instructor Information

Dr. Ted Baumgartner, 115J Ramsey Center, ph.: 706-542-4424,  
e-mail: [tbaumgar@uga.edu](mailto:tbaumgar@uga.edu) , office hours: almost any time not in class

IV. Course Objectives - At the conclusion of this course the student should be able to:

1. Differentiate between formative and summative evaluation, measurement and evaluation, and norm referenced and criterion referenced standards.
2. Effectively discuss why measurement and evaluation are an integral part of the total program.
3. Correctly identify when to use a variety of the basic descriptive statistics.
4. Correctly calculate a variety of the basic descriptive statistics.
5. Correctly interpret a variety of the basic descriptive statistics.
6. Use the computer for data analysis purposes.
7. Demonstrate an understanding of the concepts of reliability and the methods commonly used to estimate reliability.
8. Demonstrate an understanding of the concepts of validity and the methods commonly used to estimate validity.
9. Calculate estimates of objectivity, reliability, and validity and interpret them correctly.
10. Discuss a variety of evaluation techniques.
11. Calculate evaluation standards with a variety of techniques.
12. Organize and conduct a testing program.
13. Select or construct a test (fitness, skill, knowledge, etc.).

14. Correctly analyze a knowledge test.

## V. Course Content

1. Measurement and evaluation
2. Computer introduction
3. Statistical analysis of data with computer applications

### **TEST 1**

4. Reliability and objectivity for a test
5. Validity for a test
6. Test Characteristics, Administration, and Interpretation

### **TEST 2**

7. School Based Evaluation (Grading)
8. Types of physical performance tests used in exercise science and physical education

### **TEST 3**

9. Knowledge measurement

### **TEST 4 During Final Exam Period**

## VI. Evaluation

1. Criteria
  - A. Exams (4) - 90% [60 points possible] [Make-up tests possible with excuse]
  - B. Quizzes and computer projects - 10% [7 points possible] [Quiz missed may be excused if the instructor is e-mailed within 2 class meetings with a reason for missing the quiz acceptable to the instructor]
  
2. Standards
  - A. A: 80% of total points [12-15 points on a test] [53.6-67 total points]

- B. B: 65% of total points [10-11 points on a test] [43.6-53.5 total points]
- C. C: 55% of total points [8-9 points on a test] [36.9-43.5 total points]
- D. D: 40% of total points [6-7 points on a test] [26.8-36.8 total points]
- E. F: less than 40% of the total points [0-5 on a test] [0-26.7 total points]
- F. I: failure to turn in all computer assignments within 9 class days of when assigned and/or failure to complete all required assignments within 6 class days of when assigned
- G. W: Withdrawn from the class by the instructor for excessive number of unexcused absences from class

## VII. Attendance Policy

Students are expected to be in class each day and on time for class. Things do occur so the student must miss class and getting to class on time is difficult on this campus if the student must go any distance between classes. However, the student must make an effort to attend class regularly and be on time to class. Not attending class regularly will detract from the education and grade of the student as well as establish a poor image of the student with the instructor.

**NOTE**, roll will be taken at the beginning of the class. More than six unexcused absences are grounds for the instructor withdrawing you from the class (grade of W) (see III. 2, Standards in this handout). In the University of Georgia Undergraduate Bulletin, is the following statement: Students are expected to attend classes regularly. A student who incurs an excessive number of absences may be withdrawn from a class at the discretion of the professor.

## VIII. Required Assignments

1. Turn in the biographical information sheet by the end of the 2<sup>nd</sup> full week of classes.
2. Turn in computer assignments when assigned.

## IX. Honesty Policy

Students in this course are expected to conform to the University Honor Code and Academic Honesty Policy. All academic work must meet the standards contained in “A Culture of Honesty.” Students are responsible for informing themselves about those standards before performing any academic work. Academic honesty means performing all academic work without plagiarism, cheating, lying, tampering, stealing, receiving unauthorized or illegitimate assistance from any other person, or using any sources of information that is not common knowledge. Students who assist other students in academically dishonest acts are in violation of the policy. Consequences of academic dishonesty may vary from receiving a lower grade to expulsion from the University. **Particularly in this course, doing computer projects with any assistance (data entry, SPSS directions, etc.) from another student is academic dishonesty.** A Culture of Honesty may be viewed at the following web site:

<http://www.uga.edu/ovpi/honesty/academic.htm>

## X. Textbooks and Course Materials

1. Required: Baumgartner, T.A., Jackson, A.S., Mahar, M. T., & Rowe, D. A. (2007). *Measurement for evaluation in physical education and exercise science* 8<sup>th</sup> ed.). Dubuque, IA: McGraw-Hill.

2. Required: Course packet at a copy service.

#### XI. Disclaimer

The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.