HPE 472 TESTING & MEASUREMENT
COURSE SYLLABUS

Spring 2007

Student Classroom Decorum Expectations

To enhance the learning atmosphere of the classroom, students are expected to dress and behave in a fashion conducive to learning in the classroom. More specially, students will refrain from wearing clothes that impede academic learning such as but not limited to, wearing body-revealing clothing and excessively baggy pants; hats/caps, headdress. Students will turn off telephones prior to entering the classroom. Students who exhibit the behaviors described above, or similar behaviors will be immediately dismissed from class at the third documented offense. The student will be readmitted to class only following a decision by the department chair. The student may appeal the decision of the department chair to the Dean of the College offering the course, and subsequently, to the Office of the Vice President for Academic Affairs, and then to the President of Shaw University. The decision of the President will be final. Failure to follow the procedures herein outlined will result in termination of the appeal, and revert to the decision of the department chair.

COURSE: HPE 472 Testing and Measurement in Adapted Physical Education, Recreation, Therapeutic Recreation and Kinesiotherapy

CLASS HOURS: 3 Hours credit – MWF 1:00pm-1:50 pm

INSTRUCTOR: Dr. Gaddis J. Faulcon, Associate Professor

OFFICE HOURS

M/W 9:00-11:00
2:00-3:30

T/TH 3:30-5:00

FRIDAY: Appointments

Phone: 546-8373

E-mail: gaddis@shawu.edu
Course Description:

A study of measurement and evaluation procedures and theories, instruments used for collecting data, and procedures for data analysis specific to exercise and sports. The use of computers for data analysis is included.

Text

Marrow, J.R., A.W. Jackson, J.G. Disch, and D.P. Mood, 2005. Measurement and evaluation in human performance, 3rd ed Champaign, IL: Human Kinetics. Bring your book to class every day because we will be referencing tables, figures, charts, and other content nearly every day in class.

Schedule of Topics to Be Presented

The numbers in parentheses on this syllabus indicate the chapter numbers to read

Unit 1: Introduction to Descriptive Statistics

1/12 Class overview: Introduction to tests and measurements (1)  
1/17 Descriptive statistics (3): Measures of central tendency  
1/22 Descriptive statistics (3): Measures of variability, the normal bell curve  
1/24 Using technology in measurement and evaluation (2) SPSS work day  
1/26 Descriptive statistics and the normal distribution (3)  
1/29 Standard scores and the z table (part 1)  
2/2 Standard scores and the z table (part 11)  
2/5 Exam 1

Unit 2: Introduction to Inferential Statistics

2/7 Correlation (4)  
2/9 Prediction (4)  
2/12 Inferential statistics (part 1) (5)  
2/14 Inferential statistics (part 11) (5)  
2/16 Inferential statistics (part 11) (5)  
2/19, 21, 23 SPSS work days  
2/26 Exam 2

Unit 3: Reliability and Validity

3/2 Measurement and norm-referenced decisions (part 1) (6)  
3/5 Measurement and norm-referenced decisions (part 11) (6)  
3/6-8 Mid-Semester Progress  
3/9 Measurement and criterion-referenced decisions (part 11) (7)  
3/12 Measurement and criterion-referenced decisions (part 11) (7)  
3/14 Review
3/16 Grading: Summative evaluation decisions (9)
3/19 Alternative assessment decisions (8)
3/23 Measuring cognitive objectives with written tests (part 1) (10)
3/26 Measuring cognitive objectives with written tests (part 11) (10)
3/28-30 Review
4/2 Exam 3

**Unit 4: Test Application, Development, and Interpretation**

4/6-15 **Easter and Spring Break**
4/16 Physical fitness assessment in adults (11)
4/18 **University Awards Day**
4/20 Physical fitness assessment in youth (12)
4/23 Assessment of sport skills and motor abilities (13)
4/25 Psychological measurements in sport and exercise (14)
4/27 Review week
4/30 Review week
5/2-4 Final Exams graduating seniors
5/5 Last Day of class
5/7-10 Final Exams for non-graduating students

**Course Objectives:**

1. Students will demonstrate knowledge and ability in utilizing formative and summative fitness, skill, cognitive, and affective measurement and evaluation techniques appropriate for assessing participants in allied health professions.

2. Students will be able to utilize descriptive and inferential statistics to make decisions.

3. Students will demonstrate ability in assessing individual achievement of psychomotor, cognitive, and affective objectives.

4. Students will demonstrate understanding of the principles involved in assessment of groups and effective physical education programs.

5. Students will demonstrate knowledge and understanding of the statistical procedures used in the measurement and evaluation process.

6. Students will demonstrate understanding of the principles of reliability, objectivity, and validity when making evaluative decisions about individuals and groups.

7. Students will demonstrate sound decisions when choosing fitness tests for adults and children.
8. Students will demonstrate understanding of the principles associated with sound cognitive test development, utilization, and revision.

9. Students will demonstrate understanding of the use of sound psychometric principles when using measurement in the affective domain.

**Access to Notes and Outlines Homework, and Practice Problems on the Internet**

Each day class will be delivered with the use of slide presentations based on graphics presentations. The words are available to you before you come to class. It is suggested that you do the following before coming to class.

Read the chapters that we will be discussing in class. Work the Mastery Items and do the various computer assignments, homework assignments, and so forth as appropriate.

Go to the library or any computer laboratory on campus (or around the world for that matter) and go to the textbook home page.

Once you are on a computer that has access to the Internet, click on the browser icon. Enter the following URL:


You will be immediately taken to the textbook Web site. Click on the line stating, “Go to class Web site for class textbook.” On the left, locate the chapter you need, and click on it. Determine what component you want to look at and click on it.

**Ethical & Character Development Links:**

[www.ethics.org/character-development/](http://www.ethics.org/character-development/)

Cheating will not be tolerated in the class. You are not to receive information from another student or give information to another student during a test. You are to use only your memory and calculator during examinations. Students caught cheating during an examination or quiz will be subject to the university’s code of student conduct.

**Evaluation:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes &amp; Homework</td>
<td>30</td>
</tr>
<tr>
<td>Exams 1, 2, 3</td>
<td>50</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
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</tbody>
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Final Grading System:

A  90% and above
B  80%-89%
C  70%-79%
D  60%-69%
F  Below 60%

Attendance Policies

If you miss no class times, you will be awarded 6 extra-credit points at the end of the semester. Missing one class period will result in your earning 4 extra-credit points. Missing two class periods will result in your earning 2 extra-credit points. Missing three or more class periods will result in your being awarded 0 (no) extra-credit points and it could result in your failing the course.