

Course Syllabus
Dakota State University

Course Prefix, Number, Title & Credit Hours:
PE 451 Test & Measurement Credit Hours: 2 credits

Academic Term, Year:
Fall, 2008

Course Meeting Time and Location:
Tuesday – Thursday: 11:00 – 11:50 pm Room: KC 110

Instructors Contact Information:
Dr. Larry W. McDaniel
Office: Kennedy Center Room 122
Office Hours:

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-9:00					
9:30-10:45	EXS 492 Fitn. for Spc. Pop	EXS 350 EXS PHYS	EXS 4 92 Fitn for Spc. Pop	EXS 350 EXS PHYS	Intern/Pract EXS 492- Internet
10:00	office	office	office	office	Intern/Pract
11:00-11:50	PE 451 Test Measurem ent	office	PE 451 Test Measureme nt	office	Internet/Pra ct
Noon	GS-100	office	office	office	Intern/Pract
1:00-2:15	office	office	office	office	Intern/Pract
2:00					Intern/Pract

EXS 422 Internet course Fall Semester
“Additional Office Hours by discovery or appointment.”

Office Phone: 256-5164
E-mail address: larry.mcdaniel@dsu.edu
Additional Office Hours by discovery or appointment.

Course Description:
This course will include use of various tests and instruments used for measuring progress in physical education and exercise science, and how statistical concepts apply to testing in physical education. Development of the knowledge and ability to utilize both formative and summative assessments for psychomotor, cognitive, and affective domains.

Additionally, techniques to evaluate one's own teaching performance and make adjustments to enhance subsequent teaching and program effectiveness.

2004-2005 Undergraduate Catalog

Additional Course Description: (optional)

Course Prerequisites:

Prerequisites: MATH 102 or 103, and CSC 105

Technology Skills:

All assignments are to be prepared making full use of the library and computer facilities/software available on this campus.

WMCI Statement: This class requires the use of pen-based, tablet PC technology. For example, all in-class assignments must be completed using the tablet PC. Because tablet technology is an integral part of this course, it is the student's responsibility to ensure that her/his tablet PC is operational prior to the beginning of each class period. Students who are not participating in the tablet PC leasing program will need to rent a tablet PC from the library. The current fee structure for tablet PC rental from the library is \$10 for a 2-hour period.

Description of Instructional Methods:

Lecture, class demonstrations and discussions, out-of-class assignments (projects related to computer research, research design and data analysis). Use of the Internet and professional software for some out-of-class assignments.

Revised August 23, 2008

Course Requirements:

Required Textbook(s) and Other Materials

Measurement by the Physical Educator: why & how, 2002, 4th ed. Miller David K. McGraw-Hill, ISBN: 0-07-232909-2

Supplementary materials:
SPSS CD

POLICIES AND PROCEDURES:

Class attendance Policy:

Regular class attendance is strongly encouraged. It is expected that you will attend class and complete assignments on time.

Projects/assignments that are handed in late will not receive full credit.

Students will receive some credit for late projects/assignments; so all work should be handed in for evaluation. Class and group participation will affect your final grade.

Cheating & plagiarism policy

Academic dishonesty includes giving, receiving or using unauthorized aid on any academic work. The definition of academic dishonesty and the procedure for handling it are described in detail in the current version of the student handbook. You should read and understand this material.

Make-up policy:

All forms of academic dishonesty will result in an F for the course and notification of the Academic Integrity Board. Academic dishonesty includes (but is not limited to) plagiarism, copying answers or work done by another student (either on an exam or on out-of-class assignments), allowing another student to copy from you, and using unauthorized materials during an exam.

Other Policies:

University Deadlines:

Add/Drop Deadline: Sept. 11 (Thurs) CENSUS DAY

Last day to register for any fall class to determine financial aid eligibility

Last day to add a full semester class

Last day to drop a full semester class and receive 100% refund

Withdraw Deadline: Nov. 17 (Mon) LAST DAY TO WITHDRAW

Last day to withdraw from a full semester course or school and receive a grade of "W"

DSU Student Information/Help Links:

Student Handbook:

http://www.departments.dsu.edu/student_services/handbook

DSU Catalogs: <http://www.departments.dsu.edu/registrar/catalog/>

Computing Services Support: <http://www.support.dsu.edu/>

GOAL #1: Students will write effectively and responsibly and will understand and interpret the written expression of others.

Student Learning Outcomes: As a result of taking courses meeting this goal, students will:

1. Write using standard American English, including correct punctuation, grammar, and sentence structure;
2. Write logically;
3. Write persuasively, with a variety of rhetorical strategies (e.g., expository, argumentative, descriptive);

4. Incorporate formal research and documentation into their writing, including research obtained through modern, technology-based research tools.

GOAL #2: Students will communicate effectively and responsibly through listening and speaking.

Student Learning Outcomes: As a result of taking courses meeting this goal, students will:

1. Prepare and deliver speeches for a variety of audiences and settings;
2. Demonstrate speaking competencies including choice and use of topic, supporting materials, organizational pattern, language usage, presentational aids, and delivery;
3. Demonstrate listening competencies by summarizing, analyzing and paraphrasing ideas, perspectives and emotional content.

GOAL #6: Students will understand the fundamental principles of the natural sciences and apply scientific methods of inquiry to investigate the natural world.

Student Learning Outcomes: As a result of taking courses meeting this goal, students will:

1. Demonstrate the scientific method in a laboratory experience;
2. Gather and critically evaluate data using the scientific method;
3. Identify and explain the basic concepts, terminology and theories of the selected natural sciences;
4. Apply selected natural science concepts and theories to contemporary issues.

GOAL #7: Students will recognize when information is needed and have the ability to locate, organize, critically evaluate, and effectively use information from a variety of sources with intellectual integrity.

Student Learning Outcomes: Students will:

1. Determine the extent of information needed;
2. Access the needed information effectively and efficiently;
3. Evaluate information and its sources critically;
4. Use information effectively to accomplish a specific purpose;
5. Use information in an ethical and legal manner.

Student Learning Outcome 1:

Students will be able to correctly select, administer, and evaluate the results of various performance tests used in the realm of physical education and fitness testing that exceeds a 70% level of accuracy.

Assessment:

Student's assessment will include but not limited to face to face quizzes, online test, essay assignments, class presentations and demonstrations during lecture, labs, or on D2L.

Student Learning Outcome 2:

Students will be able to evaluate and interpret the results of tests using the appropriate statistical methods that exceed a 70% level of accuracy.

Assessment:

Student's assessment will include but not limited to face to face quizzes, online test, essay assignments, class presentations and demonstrations during lecture, labs, or on D2L.

Student Learning Outcome 3:

Students will be able to identify the role of measurement and evaluation as it relates to the discipline of physical education and exercise science in regards to professional accountability, program evaluation, knowledge, achievement, and grading that exceeds a level of 70 % of accuracy.

Assessment:

Student's assessment will include but not limited to face to face quizzes, online test, essay assignments, class presentations and demonstrations during lecture, labs, or on D2L.

Student Learning Outcome 4:

Students will be able to discuss the role of validity, reliability, and objectivity in regards to measurement and evaluation at a level that exceeds 70% of accuracy.

Assessment:

Student's assessment will include but not limited to face to face quizzes, online test, essay assignments, class presentations and demonstrations during lecture, labs, or on D2L.

NASPE Standards: Students will be able to:
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A. Content Knowledge

1. Identify verbally, in written form, or through the use of technology 70% or more of the critical components physical education and exercise science testing and measurement.
2. Identify verbally, in written form, or through the use of technology 70% or more of the critical elements of the importance and relevance of testing and measurement as it relates to physical education and exercise science.
3. Explain verbally, in written form, or through the use of technology 70% or more of the basics of test and measurement as it relates to the study of the other basic medical sciences, disease, and the treatment of disease.

B. Growth and Development

1. Compare and contrast tests and measurement as it relates to age and genders.

C. Diverse Learners

1. Compare and contrast differences related to tests and measurement responses as it relates to gender, age, and ethnicity.

D. Management and Motivation

1. Gain experience in prescribing, managing, and motivating programs related to components related to tests and measurement.

E. Communication

1. Experience various methods of communication, while working in small groups, projects, labs, and online D2L assignments.

F. Planning and Instruction

1. Experience planning and instructional processes involved in developing test and measurement programs.

G. Learner Assessment

1. Experience assessing the various components of tests.

H. Collaboration

1. Experience collaboration by working with small groups, panel debates, the instructor, and graduate assistants.

Evaluation Procedures:

Final grades will be assigned on this scale.

Relative absolute percentages will be used.

A = 90 - 100%

B = 80 - 89%

C = 70 - 79%

D = 60 - 69%

F = Below 60%

However, I reserve the right to adjust the final grades.

Semester assignments:

Read each chapter and accompanying PPt

Weekly in class quizzes chapter tests & SPSS

Chapter tests on D2L

Research article(s) and write Two Abstract Reports using the required

format

Final test

Final project

ADA Statement:

If you have a documented disability and/or anticipate needing accommodations (e.g., non-standard note taking, test modifications) in this course, please arrange to meet with the instructor. Also, please contact Dakota State University's ADA coordinator, Keith Bundy in the Student Development Office located in the Trojan Center Underground or at 256-5121, as soon as possible. The DSU website containing additional information, along with the form to request accommodations is http://www.departments.dsu.edu/disability_services/. You will need to provide documentation of your disability. The ADA coordinator must confirm the need for accommodations before officially authorizing them.

Academic Honesty (Sample Statement): Cheating and other forms of academic dishonesty run contrary to the purpose of higher education and will not be tolerated in this course. All forms of academic dishonesty will result in a grade of zero for that assignment. Please be advised that, when the instructor suspects

plagiarism, the Internet and other standard means of plagiarism detection will be used to resolve the instructor's concerns. DSU's policy on academic integrity (DSU Policy 03-22-00) is available online at (URL for 03-22-00--policy under review).

Freedom in Learning Statement: Students are responsible for learning the content of any course of study in which they are enrolled. Under Board of Regents and University policy, student academic performance shall be evaluated solely on an academic basis and students should be free to take reasoned exception to the data or views offered in any course of study. It has always been the policy of Dakota State University to allow students to appeal the decisions of faculty, administrative, and staff members and the decisions of institutional committees. Students who believe that an academic evaluation is unrelated to academic standards but is related instead to judgment of their personal opinion or conduct should contact the dean of the college which offers the class to initiate a review of the evaluation.

University Policy Regarding the Use of Tablets in the Classroom: The Tablet PC platform has been adopted across the DSU campus for all students and faculty, and tablet usage has been integrated into all DSU classes to enhance the learning environment. Tablet usage for course-related activities, note taking, and research is allowed and encouraged by DSU instructors. However, inappropriate and distracting use will not be tolerated in the classroom. Instructors set policy for individual classes and are responsible for informing students of class-specific expectations relative to Tablet PC usage. Failure to follow the instructor's guidelines will hinder academic performance and may lead to disciplinary actions. Continued abuse may lead to increased tablet restrictions for the entire class.

Because tablet technology is an integral part of this course, it is the student's responsibility to ensure that his/her Tablet PC is operational prior to the beginning of each class period.

For Internet Courses, only:

Course Delivery: Students proceed through a course of study as directed and assisted by computer technology. Mastery is based on achieving competencies and benchmarks.

COURSE OUTLINE (See T & M PE 451 Home Page on D2L for current assignments)

TENTATIVE SCHEDULE

DATE	TOPIC	ASSIGNMENT
Week I	Measurement, Evaluation, Assessment & Statistics Chapters 1	pp. 1-4
Week II	Describing & Presenting a Distribution of Scores	

	Chapter 2	pp. 5-32
Week III	Investigation the Relationship of & Differences in Scores	
	Chapter 3	pp. 33-54
Week IV	What Is a Good Test	
	Chapter 4	pp. 55-64
Week V	Construction of Knowledge Tests	
	Chapter 5	pp. 65-78
Week VI	Assessing & Grading Students	
	Chapter 6	pp. 79-92
Week VII	Construction & Administration of Psychomotor Test	
	Chapter 7	pp. 93-100
Week VIII	Agility	
	Chapter 8	pp. 101-108
Week IX	Balance	
	Chapter 9	pp. 109-114
Week X	Cardio-respiratory Fitness	
	Chapter 10	pp. 115-128
Week XI	Flexibility	
	Chapter 11	pp. 129-140
Week XII	Muscular Strength & Endurance	
	Chapter 12	pp. 141-157
Week XIII	Anthropometry & Body Composition	
	Chapter 13	pp. 158-176
Week XIV	Posture & Body Mechanics	
	Chapter 14	pp. 177-186
Week XV	Physical Fitness	
	Chapter 15	pp. 187-212
Week XVI	Older Adults	
	Chapter 16	pp. 213-222
Week XVII	Special Populations	
	Chapter 17	pp. 223-236
Week XVIII	Sports Skills	
	Chapter 18	pp.237-263
Week XIX	Affective Behavior	
	Chapter 19	pp.265-286

Additional assignments include learning to use SPSS, Chapter tests, and two Abstracts.

Exercise Physiology Related Journals-(that may have statistics in them)

Acta Medica Scandinavica
Acta Physiologica Scandinavica
American Journal of Cardiology
Annals of Internal Medicine
Circulation Research
Human Performance

Human Movement Science
International Journal of Sports Medicine
Journal of Applied Physiology
Journal of Gerontology
Journal of Human Movement Studies
Journal of Sports Medicine and Physical Fitness
Journal of Strength and Conditioning Research
Medicine and Science in Sport and Exercise
New England Journal of Medicine
Research Quarterly for Exercise and Sport
Respiration Physiology
Sports Medicine