Fall 9-1-2000

PT 561.01: Research in Physical Therapy

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PT 561

RESEARCH IN PHYSICAL THERAPY

I. PT 561 Research in Physical Therapy

II. Credit: 3 semester credits

III. Instructors: Chuck Leonard, Ph.D. P.T.
    Ann Williams, Ph.D., P.T.

(Other faculty serve as research advisers and guest lecturers)

IV. Clock Hours: 3 hrs/wk

V. Course Description: Basic principles of research design and statistical analysis, planning and implementing the inquiry process, investigation and analysis of published research, computer analysis of data sets, research and writing of a proposal for a research/special project.

VI. Required Text:

VII. Schedule and Content: See attached.

VIII. Objectives: See attached

IX. Course Requirements and Methods of Evaluation:

    Written and computer assignments 20%
    Written examination 15%
    Oral Presentation of proposal 25%
    Written Proposal 40%

During the term students will be assigned faculty advisers for their research/special projects. These faculty advisers are responsible and will grade the written proposal.
PT 561 Research in Physical Therapy
Schedule and Content

9/6/00 Intro to Course and Proposal
9/7/00 No Class
9/13/00 Research Design (IRB etc.)
9/14/00 Research Design
9/20/00 Lab Orientations
9/21/00 The Research Process
9/27/00 Research Issues
9/28/00 Research Issues
10/4-5/00 Type II Errors/Ind. Dep. Variables
   Internal/External Validity
   Descriptive Stats
   (Reading: pp.163-173; 209-212; Chap. 17)
10/11-12 Surveys and Sampling
   Epidemiology
   (Reading: Chaps. 8, 14, 15)
10/18-19 Inferential Statistical Analysis
   T-test
   (Chaps. 18,19)
10/25-26 ANOVA, MANOVA
   Single Subject Design
   (Chaps. 20, 21, 12)
11/1-2 SPSS
11/8-9 Correlation/Regression
   Non-parametrics
   Reliability
   (Chaps. 22, 23, 24, 25, 26)
11/15-16 Advanced Techniques
   Review
   (Chap. 27)
11/27 Assignment Due
11/29-30 Review articles, assignments
12/6-14 Research Presentations/Final Exam as per schedule