

**SYLLABUS COMMUNICATION SCIENCES 2201**

Time: 8:40 - 10:00 T,TH

Room: 301H 1700 Broad

Instructor: Reinhardt Heuer, Ph.D.

Office: 149B Weiss Office hours

posted.

Voice Mail: 215-204-4405 , e-mail: rheuer@temple.edu

**Purpose of the course:**

1. Acquaint the student with paradigms of research
2. Develop the ability to evaluate research studies
3. Develop skills in designing clinical/basic research

Specific Knowledge and Skills associated with the course is attached. Students with special learning needs are encouraged to make use of the services of Disability Resources and Services, 100 Ritter Hall Annex 215-204-1280

**Text:** The Research Methods Knowledge Base 2<sup>nd</sup> Ed. William M.K. Trochim ISBN 0-9701385-9-8 Available on-line at [www.atomicdog.com](http://www.atomicdog.com) or in the bookstore if you want hard copy.

**Examinations:** There will be four quizzes at the end of each section of the book. Students will be involved in group research projects throughout the semester. Project grades will be added as extra credit to the quiz grades for a cumulative grade.

*Temple University policies on Academic honesty and sexual harassment are available in the Undergraduate and Graduate Handbooks.*

Grading will be based on the average of four equally weighted Quizzes.

A/A- 90-100, B-/B/B+ 80-89, C-/C/C+ 70-79, D-/D/D+ 60-69, F less than 60

**Tentative Class Activities**

08/28 Introduction

08/29 Chapter I, Foundations

09/04 Chapter I, Foundations

09/06 Chapter II, Sampling

09/11 Chapter II, Sampling

09/13 Review and Group Activities

**09/18 QUIZ I**

**Group Project Questions, Hypotheses, and Nature of research project should be turned in. (5 points)**

09/20 Chapter III Theory of Measurement

09/25 Chapter III Theory of Measurement

09/27 Chapter IV Survey Research and Scaling

10/02 Chapter IV Survey Research and Scaling

10/04 Chapter V Qualitative Measures

10/9 Chapter V Unobtrusive Measures

10/11 Review and Group Activities

**10/16 Quiz II**

**Group Project review of the literature should be turned in. (5 points)**

10/18 Chapter VI Design

10/23 Chapter VI Design

10/25 Chapter VII Experimental Designs

10/30 Chapter VII Experimental Designs

11/01 Chapter VIII Quasi Experimental Designs

11/06 Chapter VII Quasi Experimental Designs

11/08 Chapter IX Advanced Design Topics

11/13 Chapter IX Advanced Design Topics

11/15 Review and Group Activities

**11/20 QUIZ III**

**Group Project Research Design should be turned in. (5 points)**

11/27 Chapter X Analysis

11/29 Chapter XI Analysis

12/04 Chapter XI Analysis

**12/13 8:30 - 10:30 FINAL QUIZ**

**Group Project Expected/Real Results and Discussion should be turned in. (5 points)**

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**Standard Knowledge and Skill associated with this course**

**3.f1** The student will demonstrate knowledge of the processes used in research by examination and discussion.

Structure of research

Ethics in research

External Validity

Construct Validity/Reliability

Internal Validity

Experimental Design

Quasiexperimental Design

Single Case Design

Data Preparation

Analysis and Conclusion Validity

Inferential and Experimental Analysis

Research Writing

**3.f2** The student will demonstrate knowledge of the use of research in developing evidence-based clinical practice through the review of articles and discussion of principles.

**3.f3** The student will know how to access sources of research information through class projects.

Library Resources

Internet Resources

Expert Opinion

**3.f4** The student will participate in a research project related to clinical practice.