

ACCHS COURSE OUTLINE/ SYLLABUS

COURSE TITLE: Research Methodology

COURSE NUMBER: PD235

UNITS/HOURS: 1/15

INSTRUCTOR: R Rull

TERM OFFERED: V

COURSE OBJECTIVES:

This course is an introduction to basic scientific research methods and statistics. It is theoretical base for the TCM research class which follows. After finishing this class, the student will know how to properly evaluate existing medical research encountered in daily study, and handles the basics of conducting scientific research himself. Varied methodological approaches and appropriate statistical analyses necessary to produce careful and systematic analyses are discussed, emphasizing those most appropriate to Chinese medical work.

TEACHING METHODS:

Teaching methods include lectures, discussion, charts, overhead projector, handouts, quizzes, homework assignments and final.

GRADING POLICY:

15% attendance and classroom participation, 40% Midterm Exam, 45% Final Exam.

PRE-REQUISITES: None

TEXT BOOK: Handout

REFERENCES:

Reading and Understanding Research, Locke, Lawrence Fl, et. al.

Research Methods in Applied Settings, Gliner, Jeffrey A., & Morgan, George A.

How to Read Paper: The basics of evidence based medicine, Greenhalgh, Trisha.

Designing Clinical Research, Hully, Stephen B., & Cummings, Steven R., eds.

DESCRIPTION OF CONTENT ON A WEEKLY BASIS:

- WEEK 1 Introductions / Why do I have to take this course?
 Discussion: How do I feel about research?
- WEEK 2 What is research; cognitive process in humans.
- WEEK 3 On-line resources and how to use them.
- WEEK 4 What constitutes credible research.
- WEEK 5 Bias.
- WEEK 6 Internal and External Validity.
- WEEK 7 Types of research.
- WEEK 8 Midterm exam
- WEEK 9 Trip to UCSF
- WEEK 10 Assessing methodological quality
- WEEK 11 Designing clinical research
- WEEK 12 Clinical research and Chinese medicine.
- WEEK 13 –15 Final Presentations.