

The University of Texas Rio Grande Valley
College of Health Affairs
Department of Health and Biomedical Sciences

BMED 3223 Independent Research Lab
Course syllabus

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Course Description:

The primary goal of this course is to expose to the newest and most exciting research related to the biomedical sciences. This course will provide students with the opportunity to develop their skills in the utilization of scientific papers in the areas of biomedical sciences to develop a research proposal.

Course Pre-Requisites, Co-Requisites, and/or other restrictions:

Admission in to the BMED program

Course Objectives:

- The student will be able to integrate knowledge of previous BMED courses with different areas in the biomedical field.
- The student will have the opportunity to read and write, critically interpret and present literature critically to fellow peers and faculty in a seminar setting.

Departmental Learning Outcomes:

- The student will be able to communicate clinical concepts by oral and written means.
- Students will acquire a basic knowledge of the clinical activities in the health profession.

Course Materials

There are no textbooks, extra expenses, or unusual materials required for this course.

Topics:

- Elements of writing a research paper
 - Identifying a gap
 - Establishing a framework
- Why we do research?
- Ethics in Research
- The Research Question
 - Qualitative and Quantitative approaches
- How to analyze data (Excel, statistics, discussion, drawing conclusions)
- Writing an Abstract
- How to write a Research proposal
 - Examples
 - ✓ *Hypertension*
 - ✓ *Sleeping habits*
 - ✓ *Smoking*
 - ✓ *Glycemic index*

Format:

- Mini Lecture
- Discussion
- Oral presentations

Evaluation:

- TBL – 25%
- Proposal presentation – 25%
- Written Proposal – 25%
- Final exam – 25%