

PHRM 396

Medical Master's Capstone

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Class Time: Tuesdays 1:15-3:15 pm

Location: TBD

Course Goals: The goal of the course is for students to advance their fundamental knowledge in biochemistry, pharmacology and physiology towards an in-depth understanding of therapeutic applications in a discussion format. Students will choose and research current therapeutic problems and will communicate new molecular strategies in "Grand Rounds" style presentations. Initial classes will consist of invited speakers that will discuss topics such as pathology and immunology in medicine. The remainder of the sessions will consist of student presentations based on their research of current problems in therapeutics. Students will gain skills in medical knowledge and critical reading and will also improve their presentation/teaching ability through small group discussion sessions.

Course Expectations: Attendance and participation is mandatory. Students will present 2 research presentations during the semester as formal powerpoint presentations. Attendance and participation in discussion will account for 25% of the grade. Two written assignments will also be graded.

60% Presentation

25% Attendance and Participation

15% Assignments

Presentations should be approximately 20 minutes long and include:

1. Introduction to the Problem
 - a. Population affected
 - b. Morbidity and Mortality
2. Underlying Physiology and Pathology
 - a. Physiology: cell and organ effects
 - b. Pathology: acute and chronic indicators
3. Current Pharmacology and Therapeutics
 - a. Current therapy
 - b. Effectiveness and Toxicities
4. Future Directions
 - a. Problems to address
 - b. Proposal for new strategy/study (clinical or preclinical)

Estimated Timeline:

<u>Date</u>	<u>Topics</u>
Jan 16	Introduction
Jan 23	Invited speaker
Feb 2-May 1	Student Presentations