

MS Biomedical Science

Curriculum Map

Student Learning Outcomes

1) Research: Develop and implement ethically and culturally appropriate clinical research that addresses health disparities in Asian, Pacific Islander, and Filipino populations.

- Conduct clinical research with cultural competence.
- Analyze and synthesize literature to ascertain state of the science in regard to selected areas of clinical research, especially health disparities in Asian, Pacific Islander, and Filipino peoples.
- Use the Internet to access clinical research information.
- Apply appropriate research methodologies to answer clinical research questions.
- Demonstrate successful scientific writing skills by producing scholarly works and writing an approved clinical research proposal.
- Make correct inferences from data.
- Apply clinical research findings by implementing and monitoring an action plan based on relevant data.

2) Professionalism/ethics: Conduct ethically responsible and culturally competent clinical research

- Demonstrate knowledge of laws, regulations, and policies related to clinical research on the development and implementation of protocols.
- Apply ethical principles in the design and conduct of clinical research, especially with disadvantaged and underserved populations.

3) Culturally competent leadership and communication: Establish community- based research networks in selected area of clinical research interest

- Communicate in a culturally competent manner with persons from diverse cultural, socioeconomic, educational, and professional backgrounds and with persons of all ages and lifestyle preferences.
- Communicate effectively in writing and voicing demographic, statistical, and scientific information for professional and lay audiences.

4) Interdisciplinary collaboration: Work collaboratively, interdependently and effectively with other members of the clinical research team

- Manage clinical research project, including budget.
- Recruit and supervise necessary staff for clinical research project.
- Demonstrate the ability to manage research team task assignments.
- Demonstrate good interpersonal skills, including the ability to work interdependently with other clinical research team members.

5) Self-directed learning: Demonstrate self-directed learning skills.

- Be able to obtain appropriate feedback, consultation, and/or review before, during, and after a research project.
- Conceptualize and synthesize the state of the science related to selected clinical research questions

I Introduced
R Reinforced
M Mastered
A Assessed

Map

Course	Program Outcome				
	1	2	3	4	5
Introduction to Clinical Research and Informatic Applications in Research	I				
Legal and Regulatory Issues and Bioethics and Institutional Review Boards		I			
Applied Clinical Epidemiology and Biostatistics		R			
Clinical Research Seminar	R	R	I/R	I/R`	I/R
Bioanalytic Methods in Clinical Research I	I				
Applied Biostatistics in Clinical Research	M				
Clinical Research Protocol Development and Scientific Writing		R	I	R	R
Thesis Research	M/A	M/A	M/A	M/A	M/A