



Charles R. Drew University of Medicine and Science

Longitudinal Primary Care

Medical Student Research Thesis Program (MSRTP) Syllabus

Class of 2020

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MSRTP Overview	The CDU/UCLA Medical Education Program is committed to prepare excellent physicians by means of providing exceptional clinical research, and practical training for individuals interested in serving urban, medically disadvantaged populations. Students enrolled in the College are required to engage in a longitudinal research activity called the “Medical Student Research Thesis Program” (MSRTP) at CDU, which culminates in the submission of a thesis.
MSRTP Goals	The overall goal of the MSRTP is to engage medical students in systematic acquisition, organization, analysis, and interpretation of information to develop new knowledge, attitude, and skills essential for becoming outstanding physicians, providing first-rate medical care, and becoming leaders in their fields.
MSRTP Objectives	<ol style="list-style-type: none"> 1. Describe terms, concepts, and fundamentals of scientific inquiries. 2. Use bibliographic software for citing and referencing of published work. 3. Conduct ethical research. 4. Develop and manage an independent research project. 5. Demonstrate capacity for scientific reasoning, interpreting scientific data, and skills to critically appraise existing medical information. 6. Communicate scientific findings.
Potential Areas of Research	In accordance with a bench-to-bedside approach to translational research, students have many options in choosing a health disparities-related mentored research project in various areas such as basic, clinical, bio-behavioral/psychosocial, environmental, quality improvement, public policy, and/or educational research.
Independent and Collaborative Research	A student may work individually, which should yield either a thesis or a journal submission. Students may collaborate on data collection and/or methodology, which is expected to result in two separate theses. Students intending to submit journal articles in lieu of a thesis must follow steps required for completion of research protocol, notify Dr. Bazargan-Hejazi of this in advance, and provide proof of submission by the thesis due date.
Tuesday Research Format	The sessions will take place on two Tuesday afternoons (one for Path 1 and a similar session for Path 2 students) from August to April. Research Session Hours: 1:00 ~ 5:00 p.m.
Suggested Textbook	<ol style="list-style-type: none"> 1. Introduction to Health Research Methods: A Practical Guild. Kathryn H. Jacobsen. (2012). Canada: Jones & Bartlett Learning. 2. Designing Clinical Research: An Epidemiological Approach. Hulley B Stephen, Steven R Cummings, Warren S Browner, Deborah Grady, Norman Hearst, & Newman, T. B. (2001). Designing Clinical Research (2nd ed.). New York: Lippincott Williams & Wilkins.

Mentored Research	Students MUST have a FACULTY mentor. Faculty mentor(s) can be from CDU or from another local, national or international academic institution. Students are highly encouraged to seek two types of mentors: a) a content mentor with strong expertise in the student’s area of clinical interest who may or may not be a faculty member, and b) a faculty research mentor with extensive research training and experience. CDU or outside mentors who are sponsoring student research involving human subjects must submit their institution’s certificate of completion for human subject research and HIPAA.
Grading	<p>Student academic performance is evaluated using a Pass/Incomplete/Fail grading system. <i>Grades are submitted by the: MSRTP Chair using the UCLA MyCourse portal.</i></p> <p>Grading for PR 011 during the 3rd year: To receive a “Pass” for PR011, students must have an approved Research Protocol by June 1st. [This is indicated by receiving a letter of approval by the Chair]</p> <p>Grading for the 4th year: To receive a “Pass” for Thesis requirement, student must:</p> <ol style="list-style-type: none"> 1. Submit an abstract for UCLA Scholarship Day 2. Participate in and present at UCLA Scholarship Day 3. Participate in and present at the CDU Annual Medical Student Research Colloquium 4. Submit a mentor- and Chair-approved research thesis by May 1st. 5. Receive a passing grade on EP650 (Research Elective)
Responsibilities	<p>Students who anticipate graduating with a different class should advise the MSRTP office of such in person, and meet with the Chair to draft a different research plan/schedule. This includes PRIME students and those who are taking leave for research or personal reasons. 3rd grading requirement for this group is</p> <ol style="list-style-type: none"> 1. Meet class schedules and complete in class assignments 2. Complete CITI IRB certification 3. Keep abreast of personal timelines.
Interpersonal Interaction Guidelines	<ol style="list-style-type: none"> 1. Regular correspondence via email. 2. Regular scheduled meetings with CDU and other mentors. 3. Regular meetings with Program Chair.
Class Meetings and Absences	<ol style="list-style-type: none"> 1. Mandatory participation in Research Sessions. 2. Two excused absences are allowed. Please notify the Program Chair by sending an email, or call the MSRTP office @ 323-563-4965.
Medical Student Research Thesis Program Award	<p>This will be presented to the top three graduating seniors who:</p> <ul style="list-style-type: none"> • Meet all research requirements with punctuality. • Demonstrate exemplary ability to perform original, independent research with high level of organization, and professionalism. • Produce highest quality scholarly thesis.

Path 1 White Band
Path 2: Gray Band

**Longitudinal Primary Care
Medical Student Research Thesis Program (MSRTP)
ACTIVITIES, MILESTONES AND DEADLINES*
Class of 2020**

#	DATE (2018-2019)	Path(s)	PRESENTER	TOPIC
1	Sep/11/18 1:00 Pm to 5:00 Pm	Path 1	Shahrzad Bazargan-Hejazi, PhD Magda Shaheen, MD, PhD Sukrit Mukherjee	<ul style="list-style-type: none"> • Introduction to CDU Faculty Profile • Overview of learning approaches and theories • Overview of senior research thesis goal, objectives and requirements • Elements of a successful research plan • What goes into selecting a research topic • Focusing a research topic • Overview of collaboration and mentoring • Overview of lead and co-authorship • Setting up student email accounts
2	Sep/18/18 1:00 Pm to 5:00 Pm	Path 2	Shahrzad Bazargan-Hejazi, PhD Magda Shaheen, MD, PhD Sukrit Mukherjee	<ul style="list-style-type: none"> • Introduction to CDU Faculty Profile • Overview of learning approaches and theories • Overview of senior research thesis goal, objectives and requirements • Elements of a successful research plan • What goes into selecting a research topic • Focusing a research topic • Overview of collaboration and mentoring • Overview of lead and co-authorship • Setting up student email accounts
3	Sep/25/18 1:00 Pm to 5:00 Pm	Path 2	Shahrzad Bazargan-Hejazi, PhD Magda Shaheen, MD, PhD	<ul style="list-style-type: none"> • Research Question Presentation and Discussion • Types of Studies and Approaches (Part 1) • Aligning RQ with Study Approach • Research Integrity and Compliance
4	Oct/16/18 1:00 Pm to 5:00 Pm	Path 2	Shahrzad Bazargan-Hejazi, PhD Magda Shaheen, MD, PhD	<ul style="list-style-type: none"> • Types of Studies and Approaches (Part 2) • Aligning Study Aim (s) with Study Approach • Individual Advisement
5	Oct/23/18 1:00 Pm to 5:00 Pm	Path 1	Shahrzad Bazargan-Hejazi, PhD Magda Shaheen, MD, PhD	<ul style="list-style-type: none"> • Research Question Presentation and Discussion • Types of Studies and Approaches (Part 1) • Aligning RQ with Study Approach • Research Integrity and Compliance
6	Jan/15/19 1:00 Pm to 5:00 Pm	Path 2	Magda Shaheen, MD, PhD Shahrzad Bazargan-Hejazi, PhD	<ul style="list-style-type: none"> • Descriptive & Inferential Statistics • Aligning Study Aim(s) with Data Analysis Plan • SPSS Hands on Practice

7	Jan/22/19 1:00 Pm to 5:00 Pm	Path 1	Shahrzad Bazargan-Hejazi, PhD Magda Shaheen, MD, PhD	<ul style="list-style-type: none"> Types of Studies and Approaches (Part 2) Aligning Study Aim (s) with Study Approach Individual Advisement
8	Jan/29/19 1:00 Pm to 5:00 Pm	Path 1	Shahrzad Bazargan-Hejazi, PhD Magda Shaheen, MD, PhD	<ul style="list-style-type: none"> Descriptive & Inferential Statistics Aligning Study Aim(s) with Data Analysis Plan SPSS Hands on Practice
9	Feb 12/19 1:00 Pm to 5:00 Pm	Path 1	Shahrzad Bazargan-Hejazi, PhD Magda Shaheen, MD, PhD Invited Thesis Committee Faculty	<ul style="list-style-type: none"> Research Protocol Draft Presentations by Students at Keck Auditorium
10	Feb/19/19 1:00 Pm to 5:00 Pm	Path 2	Shahrzad Bazargan-Hejazi, PhD Magda Shaheen, MD, PhD Invited Thesis Committee Faculty	<ul style="list-style-type: none"> Research Protocol Draft Presentations by Students at Keck Auditorium
	June 1, 2019			MILESTONE ACTIVITY FINAL PROTOCOL DUE TO MSRTP OFFICE
				2020
	Jan 6 – Feb 24, 2020			MANDATORY MOCK ORAL PRESENTATIONS FOR CDU COLLOQUIUM <i>with Dr. B</i>
	Feb 17, 2020*			<i>Submit Final Abstract for CDU Medical Student Research Colloquium</i>
	Feb 27, 2020			<i>Submit Final Colloquium PowerPoint Presentation</i>
	Feb 28, 2020			MILESTONE ACTIVITY CDU ANNUAL MEDICAL STUDENT RESEARCH COLLOQUIUM
	April 1, 2020			THESIS DRAFT DUE -- SUBMIT TO MSRTP OFFICE FOR THESIS COMMITTEE REVIEW
	May 1, 2020			MILESTONE ACTIVITY FINAL THESIS DUE

* Subject to Confirmation