

A Life in Medicine 2023

COURSE TITLE:	A Life in Medicine
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A Life in Medicine is a course for anyone considering medicine, healthcare or health sciences as a career. It is also necessary for everyone who consider medicine, healthcare or health sciences to be their life's calling and career path. The course will include a series of presentations, open discussions and illustrations of medicine's foundation, its history, evolution and contemporary applications in society. Both the art and the science of medicine will be emphasized as will its important place in facilitating ecosystems of inclusion. The curriculum is firmly rooted in the principles and practice of medicine and its tenets of compassion, morality, truthfulness, ethics, equity, inclusion, service and non-maleficence as established by Hippocrates, Harvey, Drake, Osler, Schweitzer, Tausig and many others. The course is divided into three sections:

Section I is focused on the origins of medicine, historic milestones and both the lives and teachings of the “founders” and “thought leaders”.

Section II carefully examines the evolution of medicine from the 18th through the 20th century focusing on enlightenment periods and the “scientific revolution”, ranging from the study of anatomy and physiology and remarkable advances in technology to the “white coat” era and application of science to society, understanding of disease, and the development of effective treatments. It also carefully examines the application of learning techniques, research, dark periods in the misuse of human subjects in research, and the foundation of regulatory bodies to protect the public health. Last, Section II introduces creativity, culture, dynamic thinking, humility, and diversity as the pillars of medicine as an art and a science, as well as the formative power of failure in shaping major contributions.

Section III is dedicated to the translation of medicine's fundamental principles and foundation to 21st century paradigms, including global health, health care systems, access to care, cost-affordable care, social awareness and change, wellness, health equity, ethics, philanthropy and team-based practice.

- **Section I**
- Lecture 1: Introduction – What is Medicine to you?
- Lecture 2: Hippocrates and the Hippocratic Oath. The power of why.

- Lecture 3: Medicine in the Middle Ages: Medieval, but Impactful.
- Lecture 4: Enlightenment, Golden Ages, Gilded Ages, and the Scientific Revolution.

Section II

- Lecture 5: Medicine's Metamorphosis - the genius and vision of Daniel Drake, Sir William Osler, Albert Schweitzer, Benjamin Rush, and Helen Tausig.
- Lecture 6: How We Think and Learn Matters.
- Lecture 7: The History of Clinical Research: from inquiry to equity.
- Lecture 8: The Birth of Regulatory Bodies to Protect the Public Health.

Section III

- Lecture 9: Equality, Diversity and Social Justice in Medicine: Overcoming implicit and explicit bias for the greater good.
- Lecture 10: Global Health and Pandemics-what can be learned and applied to healthcare?
- Lecture 11: Affordable, Equitable and Accessible Health Care. What can be done?
- Lecture 12: Moral Codes, Ethics, Medicine and Society.
- Lecture 13: Leadership in the New World, Philanthropy and the Power of Failure.
- Lecture 14: Team Practice, Shared Decision-Making, Re-thinking, and Patient Values and Preferences.
- Goals and Objectives: Communication, collaboration, oratory skills, scientific writing, collegiality, creative thought, and open scholarly interchange.
- Grading Policy: The course will be graded as: A, B, C, D, F to coincide with superb, excellent, good, suboptimal and lacking effort and performance for each of the following activities:
 - Active participation in class discussion (10%).
 - Weekly writing assignments (total 35%).
 - Poster presentation (15%).
 - Thesis (40%).

The weekly writing assignment will consist of up to 1000 words and 5 references on a theme related to the week's primary topic. The goal is to develop a keen eye for identifying

meaningful content on subject matter, review the medical literature and acquire writing skills:

- Grammar/Syntax (*spelling, punctuation, tense, etc.*)
- Clarity (*are each of your sentences and points clear and easily followed? Is your sentence unnecessarily wordy or vague?*)
- Flow (*Do your ideas move fluidly from one to the next, and are they clearly connected to the overall themes and concepts you're drawing from and working with?*).
- Scientific content.

Poster presentation: Each should address a topic in medicine-options include, but are not limited to: history, unmet health needs, political influences, health care reform, vaccination and politics, global health, discovery, health literacy, pragmatic clinical research, wearable technology, culture and medicine, remote learning, health information, electronic health records and research, contemporary education, social media, data science, artificial intelligence, machine based learning, entrepreneurship, and innovation.

- Can also use research projects (if not presented or published previously).
- Individual or groups.

Thesis Paper: 3000 words (text), including 1-2 tables, 1-2 figures and up to 15 references on a topic that captures the essence of a life in medicine. Examples include, but are not limited to: new paradigms of medical education, learning in the era of information, the impact of communicable disease on history and society, remote learning and medical practice, mobile health information and population health, medicine in 2050, unaffordable health care, social media and health care research and why the “Hippocratic Oath” remains a foundation of medicine.