

698C HEALTH, EDUCATION AND INNOVATIVE TECHNOLOGY

This is not a clinical rotation

Course Description:

This elective is designed for students to review the latest trends in technology through tailored web and article searches, curate articles based on areas of interest, publish tech briefs and commentary pieces, and complete an instructional technology project in their area of clinical expertise.

Department: Educational Affairs

Prerequisites: Successful completion of 1st and 2nd year curriculum. An iPad is required for this rotation.

Restrictions: None

Elective Director: Warren Wiechmann, MD, MBA, Medical Education Building 836, Room 1104, Irvine, CA 92697. PPhone: 949-824-3837; wiechmaw@uci.edu

Instructing Faculty: Warren Wiechmann, MD, MBA, Medical Education Building 836, Room 1104, Irvine, CA 92697. PPhone: 949-824-3837; wiechmaw@uci.edu

Course Website:

Who to Report to on First Day: Warren Wiechmann, MD, MBA, Julie Youm, PhD, or Mary Francest Ypma-Wong, PhD.

Location to Report on First Day: Medical Education Building, Rom #1105

Time to Report on First Day: 8:30 AM

Site Coordinator: Julie Youm, PhD

Site: Medical Education Building, UCI School of Medicine

Periods Available: Throughout the year

Duration: 2 or 4 weeks

Number of Students: up to 4 per block

Scheduling Coordinator: UC Irvine students please call (714) 456-8462 to make a scheduling appointment.

Course Objectives: At the end of this rotation the student will be able to:

- Understand the role that technology plays in advancing the practice of medicine and education
- Become familiar with Web 2.0 tools that lay a large role in patient-centered and patient-authored health networks
- Demonstrate knowledge of the concepts of HIPAA, data security, and health records to allow them to use technology to practice medicine safely.
- Demonstrate knowledge of the role of technology in patient care enironments and use bestpractices to strengthen the patient-doctor relationship
- Author educational content for patients, colleagues, and students using Web 2.0 tools
- Leverage mobile applications or "apps" to improve the student educational and clinical experience on their clerkships
- Evaluate and assess existing Web 2.0 tools and online medical resources for credibility and content validity
- Become nimble in using technology to improve resaerch and authoring workflows

Key Topics:

3/31/2016

- Social Media and Digital professionalism in Healthcare
- App Development and Content Authorship
- Content curation of web resources and mobile applications
- Online learning via the Flipped Classroom, MOOCs, FOAMed, and OPen Courseware
- Effective Communication and Public Writing Skills
- Medicine 2.0 Concepts - wearable technologies, quantified self, personalized medicine
- ePatients and Participatory Medicine
- Business of Medicine and Technology
- Innovative Practice Models leveraging technology

Competencies:

- Students as authors and educators
- Innovative curriculum redesign using instructional technologies
- Using technology to improve clinical and research workflows
- Understand concepts of patient privacy and HIPAA
- Professional and public interactions using Web 2.0 tools
- Content curation and authorship using Web 2.0 tools

Attitudes and Commitments:

- Understanding that technology is essential to help engage patients
- Recognizing that although technology can be disruptive, it can lead to significant improvements in educational and patient care workflows
- Understand that technology can foster a culture of innovation amongst physicians, patients, and students

What Students Should do to Prepare for the Rotation: Students must have a willingness to author content (articles, social media, podcasts) on the internet to wide, public audience and a willingness to incorporate technology into their clinical and educational practices

Clinical Responsibilities of the Student: This is not a clinical rotation.

Patient Care Responsibilities of the Student: This is not a clinical rotation.

Call Schedule of the Student: This is not a clinical rotation.

Procedures to be Learned by the Student: This is not a clinical rotation

Percentage of Time Student will Participate in Ambulatory Setting: This is not a clinical rotation

Conference/Lecture/Small Group Sessions:

Course Hours Weekly Summary:

Content Theme Integration:

- Communication Skills
- Decision Making
- Health Care Quality Improvement
- Health Care Systems
- Health Literacy
- Medical Informatics
- Medical Genetics and Genetics Counseling
- Medical Socioeconomics
- Patient Health Education

- Patient Safety and Reporting Systems
- Practice Management
- Research Methods

Reading:

Required: Creative Destruction of Medicine by Eric Topol

Recommended:

- Social Media in Clinical Practice by Bertalan Mesko
- Socialnomics: How Social Media Transforms the Way We Live and Do Business
- Blog sites: 33 charts.com, kevinmd.com, iMedicalapps.com, mobihealthnews.com

Official Grading Policy: This elective will be offered as Honors/Pass/Fail

Students will receive a passing mark if they view all of the lecture podcasts, curate and post content daily to the course website, and complete a technology project to improve basic or clinical science education or patient care.

Honors will be awarded for students who complete the course requirements and author a "tech brief" or "white paper" on the role of an emerging technology in patient care or education; author at least four case discussions or exercises to accompany the lecture material, and author at least six clerkship-specific entries in our iTunesU courses.

The course director will meet with students weekly to provide feedback on their project and other course requirements. Students who do not meet these criteria will be given the option of doing additional written work that will be determined by the instructor, or the student may choose to repeat the entire elective.

The student's final grade will be submitted on the standard UC Irvine elective form. If the student fails the elective, a grade of "F" will be permanently recorded on his/her transcript. The student can repeat the course for a second grade, however, the "F" will not be removed from the transcript.