SOM Spring 2019 Electives

How to enroll in an SOM elective: Email Krisztina Hershon, khershon@ucsd.edu (SOM’s Registrar) and provide her with the course name and number you would like to take along with your PID number. She will authorize you to enroll in the course and will confirm with you when done. You will then be able to add the course via WebReg.

If you have enrolled in an SOM elective, I encourage you to email the course contact *before* the class begins to let them know you are a pharmacy student who has enrolled in the course and ask if there is anything you need to do to prepare for the first day.

MED 234  Practical Histopathology & Mouse Models of Human Disease

Section 975106  Course contact: Dr. Nissi Varki, nvarki@ucsd.edu

The course is designed to guide investigators with the analysis of genetically altered mice. Lecture topics will emphasize use of histology, histochemistry, immunohistochemistry, in the interpretation of the histopathology of the various organ systems. Those who will benefit from attending the course will be graduate students, medical students, post-doctoral fellows and interested faculty. Lecture topics will include technical information and protocols, along with discussions on the various phenotyping methods available to help with the analysis of genetically altered mice, as compared with littermate controls.

Instructor  Varki
P-Years Eligible  23
Units  2
Classroom  BSB Lab
Schedule  Tuesdays: 1:00 PM - 3:00 PM --- 1st class is April 2

MED 239  Health Frontier/Tijuana

Section 976459  Course contact: Jose Luis Burgos, jlburgos@ucsd.edu, 619.819.8369

Students will learn about Mexican health systems and principles and practices of global health as they design and implement health education and screening programs. Under faculty supervision, students will learn how to take histories and perform physical education as well as administration, health education and leadership.

Students will be expected to complete IRB CITI certificate and HIPPA compliance training.

Instructor  Burgos
P-Years Eligible  23
Units  2
Classroom  STEIN 148
Schedule  Tuesdays: 1:00 PM - 2:00 PM --- 1st class is March 26

MED 246  Current Literature in Glycobiology

Section 975668  Course contact: Tracy Gilstrap, tgilstrap@ucsd.edu

This course provides a forum for informally discussing current papers in glycobiology research. Topics include glycan chemistry, biochemistry, genetics, cell biology, and molecular biology in animals, plants, and microbes, as well as medical aspects of glycobiology.

More information: http://grtc.ucsd.edu/Current_Lit.html

Instructor  Bode
P-Years Eligible  123
Units  1
Classroom  BRF2 4103
Schedule  Thursdays: 12:00 PM - 1:00 PM ---- 1st class is April 5
Understanding the Application of Meditation to Medicine

Section 976468 Course contact: Dr. Daniel Lee, MD, dalee@ucsd.edu, 619.543.7014

Attendance to the first class is absolutely vital as key baseline concepts will be discussed at the first class. From then on, additional concepts that are built on the initial concepts will be discussed in subsequent weeks. Thus, attendance to class will facilitate your understanding. Students will get firsthand experience with learning Kelee meditation (www.thekelee.org), including the Anatomy of the Kelee and how to apply the Basic Principles of the Kelee to improve their patient care interactions.

Course introduces students to meditation including: a broad review of origins and meditation types, meditation research design considerations, and current comprehensive review of published evidence. Meditation taught emphasizes use as medical therapeutic and to enhance patient-physician relationship.

Instructor Lee
P-Years Eligible 123
Units 1
Classroom MET 315
Schedule Tuesdays: 5:30 PM - 7:00 PM --- 1st class is March 26

Modeling Clinical Data and Knowledge for Computation

Section 976474 Course contact: Dr. Michael Hogarth, mihogarth@ucsd.edu, 916.817.9951

This course will describe existing methods for representing and communicating biomedical knowledge. It will describe existing health care standards and modeling principles required for implementing data standards, including biomedical ontology (e.g., Gene Ontology, Infectious Disease Ontology), messaging standards (e.g., HL7), and knowledge resources (e.g., UMLS).

Instructor Hogarth
P-Years Eligible 13
Units 4
Classroom MedEd 204
Schedule Mondays & Tuesdays: 3:00 PM - 5:00 PM --- 1st class is April 1

Cancer Genomics Journal Club

Section 976476 Course contact: Elizabeth Santillanez, esantillanez@ucsd.edu

For one hour the presenter will discuss a recent (<6 months) article from the published scientific literature on the topic of cancer genomics and related bioinformatics methods. Rotating presenters include class members, instructors, attending faculty or staff.

The class website is: http://moores.ucsd.edu/oncogx/MED278.htm

Instructor Harismendy
P-Years Eligible 23
Units 1
Classroom BRF2 1104
Schedule Tuesdays: 2:00 PM - 3:00 PM --- 1st class is March 26
Network Biology and Biomedicine: Networks are pervasive in molecular biology and medicine. This course introduces biomolecular networks and their major analysis techniques and roles in biomedical research, including pathway-based genetic analysis. Recommended familiarity with bioinformatics programming; course examples are taught in Python.

Networks are pervasive in molecular biology and medicine. This course introduces biomolecular networks and their major analysis techniques and roles in biomedical research, including pathway-based genetic analysis. Recommended familiarity with bioinformatics programming; course examples are taught in Python. Prerequisites: Genetics and Graduate Level Statistics. Prerequisites may be waived with consent of instructor.

**Instructor**  
Ideker

**P-Years Eligible**  
12

**Units**  
4

**Classroom**  
CMM 2047

**Schedule**  
Tuesdays & Thursdays: 3:00 PM - 4:30 PM --- 1st class is April 2

---

**NEU 233  Circadian Rhythms and Health**

Section 976948  
Course Contact: Paula Desplats, pdesplat@ucsd.edu (please add NEU233 in the Ref. line)

This is a 10-week elective pre-clerkship course created to give medical students knowledge about the role of circadian rhythms in health and to provide fundamental concepts to evaluate the impact of circadian alterations as human disease drivers. Emerging evidence shows that current life-style with shift-work; 24/7 access to food and services and alterations in sleep patterns and nutrition shift circadian rhythms. The circadian clock regulates the expression of almost 30% of the human transcriptome, hence deeply affecting physiology. Alterations in circadian rhythms increase risk of illness and affect cognition and work performance; surgery outcomes; fertility and drug metabolism. This class will cover basic principles of circadian regulation and discuss effects of circadian impairment across a wide range of clinical outcomes. As we unravel the mechanisms that govern circadian biology, life style and therapeutic interventions that align circadian rhythms may become standards of health care in the near future. This course is important as it will provide the next generation of physicians with crucial understanding of circadian rhythms and provide the necessary concepts in order for them to implement circadian-based strategies to improve their patient’s overall health and speed their recovery.

**Instructor**  
Desplats

**P-Years Eligible**  
23

**Units**  
1

**Classroom**  
MET

**Schedule**  
Tuesdays: 2:00 PM - 4:00 PM --- 1st class is
Intersections of LGBTQ Health

A 9-week open-forum-based course that aims to increase awareness of LGBTQ issues among health care professionals-in-training in order to ameliorate the experiences of sexual and gender minorities.

This is an engaging course that combines didactics with group discussion on LGBTQ health and the disparities that exist within the LGBTQ community. Each week is led by a different facilitator from a different practice in medicine as we try to unpack these complex and thought-provoking topics to help us become more competent healthcare professionals.

Instructor: Willies
P-Years Eligible: 123
Units: 1
Classroom: MET 204
Schedule: Thursdays: 5:00 PM - 7:00 PM --- 1st class is March 28

Health Education Outreach Elective / Doc 4 a Day

Please do not enroll yourself in this course. A student pharmacist will help coordinate this elective. He/she will email all of you to solicit interest in the elective. He/she will then provide me with the student roster and I will have everyone manually enrolled with the Registrar. Course contact: Katherine Garcia, k2garcia@ucsd.edu

Doc-for-a-Day is a "service-learning" activity whereby medical students get the unique opportunity to interact with and engage disadvantaged middle and high school students for one day at the School of Medicine. This event is geared towards exposing inner city kids to the possibility of pursuing a career in science or medicine. It involves students working in small groups with kids teaching physical exams, neurological exams, and anatomy. The students will also hold a panel to discuss issues they encountered upon choosing a career in medicine.

Instructor: Garcia
P-Years Eligible: 123
Units: 1
Classroom: TBD
Schedule: The event takes place on a Saturday (see WebPortal for announcement) on the UCSD campus, and usually lasts 5-6 hours (including lunch). The group will meet formally three times to develop the curriculum. Attendance at these meetings as well as the event is required to receive credit. An announcement will be made on the WebPortal forum for the first planning meeting.

Partnering with Communities

This course is designed to provide students with the knowledge and skills to partner with communities to develop, conduct and evaluate community-based research, and design and conduct program evaluations of community programs.

Instructor: Garcia
P-Years Eligible: 123
Units: 2
Classroom: MET 313
Schedule: Thursdays: 3:00 PM - 5:00 PM --- 1st class is March 28
SOMI 248  Introduction to Interventions and Evaluation for Global Health

Section 976486  
Course Contact: Rosie Jimenez-Negrete, r7jimenez@ucsd.edu

Introduction to Interventions and Evaluation for Global Health

Instructor: Averbach
P-Years Eligible: 2
Units: 1
Classroom: TBD
Schedule: Thursdays: 1:30 PM - 3:30 PM (sometimes to 4:00 PM) --- 1st class is March 28

SURG 232  Representing the Human Body

Section 976487  
Course contact: Debby Kline, dekline1@yahoo.com

Drawing can potentially train the hand "to see" and the eye "to feel." To learn to draw the human body with empathy is to acquire valuable training in visual sensitivity and perception. No special graphic skills are required.

Instructor: Whitehead
P-Years Eligible: 23
Units: 3
Classroom: BSB MDL 1113A
Schedule: Tuesdays: 1:00 PM - 4:00 PM --- 1st class is March 26