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SECTION I: M4 ROTATION POLICIES

The current policies for the M4 year is as follows:

1. 1 week of clinical rotation = 1 credit unit (except for TA electives)

2. Total of 31 M4 credit units required for graduation that includes minimum of 1 sub-internship.

3. Sub-internship rotations earn 1.5 credit units/week. Maximum allowable sub-internships: 3. Please keep in mind that there is a 12 credit unit limit for a given specialty (see #5).

4. Sub-internship can be completed at an “away” site.

5. Maximum credit for a specialty: 12 credit units. Section III of this manual has the AAMC Medical Specialties categories outlined and this will assist the student in understanding how specialty limit is defined. Hence if a student selects rotation in Cardiology, Pulmonary and Infectious disease this will be considered 12 units in the Internal Medicine and thus reach the maximum allowed.

6. Maximum away rotations: 4

7. If you are considering an International away rotation you must discuss this first with Dr. Yip or Dr. Khatri to seek approval.

8. 2 courses cannot be undertaken at the same time (except: Research and Mindfulness, Healer’s Art, and Leadership). To get credit for research at the 40 hrs/week, there will not be enough time to perform a clinical rotation.

9. 4 weeks of electives (mindfulness, leadership and healer’s art) completed prior to the M4 year can count towards the 31-week graduation requirement

10. Deferral of M3 core clerkships to M4 is not allowed. M3 Clerkships in the M4 year will occur for remediation purposes (students should complete the remediation clerkship before beginning M4 rotations). OB/GYN, Pediatrics, Surgery, IM, Psych, and FM clerkships need to be completed prior to embarking on VSLO (formerly VSAS) away electives. Neuro and EM are not considered core clerkships. Neuro and EM electives may be deferred in preparation for applying to residency.

11. Students should complete the remediation clerkship before beginning M4 rotations

12. The final M4 flight plan (rotations providing 31 credits) for graduation has to be submitted by August 1st. This allows ample time for Registrar to conduct a preliminary degree audit.

13. Students can do extra rotations that fall outside the above limitations (i.e. extra “specialty” rotations or extra “away” rotations) BUT they will not receive graduation credits for these rotations.
14. Students must be enrolled in an approved elective (see M4 Elective Catalogue) to receive credits.

15. Research Elective Limit: 4 units. Students need to submit a detailed research plan to CNUCOM that requires review and approval.

16. To provide some flexibility in the schedule during the interview months, several Teaching Assistant (TA) M4 rotations have been designed.

17. For OSCE TA and for this elective up to 4 units can be earned. You must sign up for the sessions and notify the preceptor if you are withdrawing from any sessions. Note that 10 hours of direct teaching is equal to 1 credit unit.

18. IMPORTANT information for Residency interview time from October through January: We have let your preceptors know that you may need to miss some time from electives in order to get the interviews done. Please communicate clearly with your preceptors about your interview schedule. Please minimize the number of days that you’ll be missing from your electives to go to your interviews. You will be allowed to miss up to 4 days/elective for 4 week electives and 2 days for 2 week electives but your preceptors will discuss ways to make up the days that you are missing to make sure that you receive proper credits for the elective. You will need to forward the documentation confirming your interview schedule to our Clerkship Coordinator Team so they can alert your preceptors that we are also aware of your interviews. These are case by case and if your preceptors have any questions, please direct them to us.

19. PLEASE complete your Preceptor and Institution evaluation within 1 week of the rotation. Once you have completed your evaluation, Linda Inthongpradith [Phone: (916) 686-7465; Fax: (916) 686-7310; Email: La.Inthongpradith@cnsu.edu] will release your evaluation by the Preceptor.

20. The point of contact for all M4 related questions is Aaron Dang [Phone: (916) 686-7380; Fax: (916) 686-7310; Email: aaron.dang@cnsu.edu].

21. During the M4 year we will arrange monthly/bi-monthly (according to the need) M4Connect Webinar to communicate back any of your rotation concerns. Dr. Khatri will be present at these sessions. If you need to have a specific clerkship director present at this webinar please inform Aaron or Linda.
SECTION II: M4 ELECTIVE OPERATIONAL PROCESS

A structured process is being established for the M4 electives/sub-internship which is as follows:

1. A 13-block system has been created for the next academic year 2019-2020.
2. Preceptors will be requested to complete the 2019-2020 timetable and select the months they wish to offer electives and how many students they will accept.
3. In Jan/ Feb 2019 this database of available electives will be released to the students to view.
4. When the M4 Elective schedule is opened for enrollment, student will be allowed to select 4 home rotations.
5. These rotations will be on a “first come first basis”
6. Waiting list will be established.
7. Please use the M4 Elective Planner to develop your M4 rotation calendar.
8. Please complete an (see below) Elective selection Form and email it to M4@cnsu.edu. She will then forward the contact email and phone number for the Preceptor.

9. Please complete an (see below) Elective selection Form and submit it to M4@cnsu.edu.

10. Plug in the VSLO away rotations in your calendar

11. The final M4 flight plan (rotations providing 31 credits) for graduation has to be submitted by August 1st. This allows ample time for Registrar to conduct a preliminary degree audit.

12. PLEASE SUBMIT THIS PLAN AS A TYPE WRITTEN DOCUMENT.
13. IT IS ALSO IMPORTANT TO COMPLETE THE M4 ELECTIVE PASSPORT

14. As electives get added, this manual will be updated. The title of this catalogue will have the edited date.

15. There is a standard syllabus template created for a M4 Elective. Please contact Linda Inthongpradith for a copy. It has standard learning objectives already pre-filled. PLEASE do not remove these approved Course Learning Objectives (CLO). You may add specialty specific objectives.
SECTION III: M4 CNUCOM CONTACT INFORMATION

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**PATH:** PATHOLOGY-ANATOMIC & CLINICAL
BLOOD BANKING - TRANSFUSION MEDICINE
CHEMICAL PATHOLOGY
CYTOPATHOLOGY
FORENSIC PATHOLOGY
HEMATOLOGY
MEDICAL MICROBIOLOGY
NEUROPATHOLOGY
PEDIATRIC PATHOLOGY

**PSY:** PSYCHIATRY
ADDICTION PSYCHIATRY
CHILD & ADOLESCENT PSYCHIATRY
FORENSIC PSYCHIATRY
GERIATRIC PSYCHIATRY
PALLIATIVE MEDICINE

**RONC:** RADIATION ONCOLOGY

**RAD:** RADIOLOGY
ABDOMINAL RADIOLOGY
CARDIOThorACIC RADIOLOGY
ENDOVASCULAR SURGICAL
NEURORADIOLOGY
MUSCOSKELETAL RADIOLOGY
NEURORADIOLOGY
NUCLEAR RADIOLOGY
PEDIATRIC RADIOLOGY
VASCULAR & INTERVENTIONAL RADIOLOGY
NUCLEAR MEDICINE
PALLIATIVE MEDICINE

**SUR:** SURGERY
COLON & RECTAL SURGERY
HAND SURGERY
PEDIATRIC SURGERY
SURGICAL CRITICAL CARE
VASCULAR SURGERY
CARDIOThorACIC SURGERY
THORACIC SURGERY
PEDIATRIC CARDIOThorACIC SURGERY
SURGICAL ONCOLOGY
TRANSPLANT SURGERY
TRAUMA SURGERY
SURGICAL CRITICAL CARE
ACUTE CARE SURGERY
PALLIATIVE MEDICINE

**PLS:** PLASTIC SURGERY
CRANIOFACIAL SURGERY
HAND SURGERY

**URO:** UROLOGY
PEDiATRIC UROLOGY
SECTION V: CATALOGUE OF CNUCOM ELECTIVES AND SUB-INTERNSHIP

ALLERGY AND IMMUNOLOGY

AAI 810 Allergy/Asthma/Immunology
Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: TBD
Offered as: 4-week rotation

General Description: Office based allergy practice that will help the learner to manage allergic diseases from rhinitis, asthma, food allergies, primary immunodeficiency, angioedema, and anaphylaxis. Additional areas for longer options (if multiple rotation lengths are offered) include spirometry, skin testing, allergy injections, drug desensitization, and care of anaphylaxis. Demonstrate knowledge pertaining to the management of allergic diseases including rhinitis, asthma, food allergies, primary immunodeficiency, angioedema and anaphylaxis.

AAI 812 Allergy & Immunology
Number of Students: 2-4/month
Locations: Allergy Medical Group of Northern Area – Sacramento Clinic; Roseville Clinic
Course Director: Sunil P. Perera, MD., Mudita Gogna, MD.
Offered as: 4-week rotation

General Description: To orient students how to obtain problem focused history from patients with atopic disease focused physical exam, basic information of following diseases, and learning about basic atopic diseases, allergic rhinitis, sinusitis, asthma, urticarial, angioedema, food allergy/intolerance, drug allergy, insect allergy, environmental sensitivity. Identify focused historical and physical exam findings in patients with atopic disease. Demonstrate knowledge about basic atopic diseases, allergic rhinitis, sinusitis, asthma, urticarial, angioedema, food allergy/intolerance, drug allergy, insect allergy, and environmental sensitivity. Apply guidelines for management and follow up of basic atopic diseases. Clinical experiences includes face to face interaction with patients with atopic disease.

ANESTHESIA

ANE 810 Anesthesia
Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: TBD
Offered as: 4-week rotation

General Description: Students seeking to increase their knowledge of anesthesiology and perioperative medicine will actively participate in the anesthetic care of surgical patients. Progressive and increased responsibility for pre-, intra-, and postoperative patient management will be assumed by the student under the direction of an anesthesiologist. The student will participate fully in the perioperative anesthetic care of a healthy patient during uncomplicated surgery. Students will participate in the department's didactic conferences; reading is required to meet learning objectives.
ANE 811 The Art and Practice of Anesthesiology and Pain Medicine
Number of Students: 6/Month
Locations: Sutter Roseville Medical Center
Course Director: Anthony Kong, MD
Offered as: 4-week rotation

General Description: Introduction to the field of anesthesiology and pain medicine. Understand basic pre-operative principles to optimize patients for surgery. Able to weigh the risks and benefits of drugs used and actions taken for the patients. Development of confidence, rapport, professionalism and teamwork in the operative arena. Understand the meaning of “Primum non nocere.” and the concept of evidence based medicine Clinical skills include basic airway management, physiological monitoring, sedation and pain management. Knowledge of basic anesthetic agents, intra-operative and pain medications. Critical review of basic and clinical anesthesia literature. Exposure to different anesthetic techniques from lines placement to regional and neuraxial anesthesia. Techniques in stabilizing an unstable patient. Students will be assigned to an attending anesthesiologist each day and may rotate to another anesthesiologist depending on cases and anesthetic techniques used. Special emphasis is given to airway management, pre-operative evaluation, intra-operative and post-operative care of patients. Students will rotate to the ambulatory surgery centers, hospital inpatient surgical and obstetric department. Exposure to ICU and trauma patients will be included when students work alongside an on-call trauma anesthesiologist when available.

DERMATOLOGY

DER 810 Dermatology
Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: Jasdeep Sharma, MD
Offered as: 4-week rotation

General Description: This elective is customized to the specific interests of the 4th year medical student interested to learn more about medical surgical dermatology. The student will be exposed to medical dermatology encounters with patients having primary skin disease, to include immunobullous diseases, contact dermatitis, connective tissue diseases, congenital skin disease, skin cancer, and infectious diseases, as well as medically-complicated patients displaying dermatologic manifestations of systemic disease or therapy. The goal of the dermatology clerkship is to propose to students the clinical aspects of dermatology. Students will develop skills in history taking and physical exam, case presentation, diagnostic decision making, use of appropriate diagnostic testing, and management if common disorders of the skin, hair, and nails.

DER 811 Dermatology
Number of Students: TBD
Locations: Kaiser Permanente - Fresno
Course Director: Alan Blankenship, MD, PhD, FAAD, DABD
Offered as: 4-week rotation

General Description: This elective is customized to the specific interests of the 4th year medical student interested to learn more about medical surgical aspects of dermatology. The student will be exposed to medical dermatology encounters with patients having primary skin disease, to include immunobullous diseases, contact dermatitis, connective tissue diseases, congenital skin disease, skin cancer, and infectious diseases, as well as
medically-complicated patients displaying dermatologic manifestations of systemic disease or therapy. Will work with board-certified Dermatologists directly.

**EMERGENCY MEDICINE**

**EME 801 Emergency Medicine Sub-I**
Number of Students: 2/Month  
Locations: Multiple  
Course Director: Leonard Ranasinghe MD, PhD and James Lee MD  
Offered as: 4-week rotation

General Description: To provide an opportunity for students who have an interest in pursuing a career in emergency medicine or a related specialty to function at an intern-like capacity in an emergency department with expanded experience and responsibility. To provide additional exposure to the diverse spectrum of clinical problems encountered in the emergency department, with emphasis on direct patient management.

**EME 810 Emergency Medicine**
Number of Students: 1/Month  
Locations: Kaiser South Sacramento  
Course Director: TBD  
Offered as: 4-week rotation

General Description: Exposure of the medical student to patients with complaints covering all age and all subspecialties who present to the Emergency Department. Will have first contact responsibility to perform a history and physical exam on each of his/her patients. Will discuss each case with an Emergency Department physician prior to ordering lab work, x-rays, medicines or consultation. Will discuss each case with an Emergency Department physician prior to patient's treatment and disposition. Will be actively involved in patient's education concerning discharge instruction (prescription, home care, etc.), and appropriate physician follow up.

**FAMILY MEDICINE**

**FAM 801-1 Family Medicine Sub-I**
Number of Students: 1/Month  
Locations: Forest Hill Medical Center  
Course Director: Blaise DeSouza, MD  
Offered as: 2-4 week rotation

General Description: Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Develop the skills to acquire historical information, perform a physical examination and to communicate such findings with clinical reasoning skill. Demonstrate an effective approach to the hospitalized patient. Demonstrate an effective approach to the patient presenting to the emergency department.

**FAM 801-2 Family Medicine Sub-I**
Number of Students: 1/Month  
Locations: Western Sierra Medical Clinic  
Course Director: Christina Lasich, MD  
Offered as: 2-4 week rotation
General Description: Understand the principles of family medicine care. Understand the role of Family Medicine physicians within any health care system. Demonstrate an effective approach to the evaluation and initial management of acute and chronic illnesses commonly seen in an outpatient office setting. Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Develop the skills to acquire historical information, perform a physical examination and to communicate such findings with clinical reasoning skill.

FAM 801-3 Family Medicine Sub-I
Number of Students: 2/Month
Locations: Kaiser Hospital, Walnut Creek
Course Director: Chantal L. Morrison DO
Offered as: 4-week rotation

General Description: Demonstrate an effective approach to the evaluation and initial management of acute and chronic illnesses commonly seen in an outpatient office setting. Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Discuss the principles of family medicine care. Develop the skills to acquire historical information, perform a physical examination and to communicate such findings with clinical reasoning skill. Gather information, formulate reasonable differential diagnoses, and plans for initial evaluation and management of common presentation encountered in the outpatient office setting. Manage follow-up visit for patients presenting with one or more chronic illnesses. Demonstrate competency in the elicitation of the history and performance of the physical examination. Demonstrate competency in understanding evidence-based health promotion/disease prevention plans for patients of any age and either gender. Discuss the role of Family Medicine physicians within any health care system.

FAM 801-4 Family Medicine Sub-I
Number of Students: 1/Month
Locations: Kaiser Permanente, Antioch CA
Course Director: Maung Wai, M.D., FAAFP
Offered as: 4-week rotation

General Description: Demonstrate an effective approach to the evaluation and initial management of acute and chronic illnesses commonly seen in an outpatient office setting. Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Develop the skills to acquire historical information, perform a physical examination and to communicate such findings with clinical reasoning skill. Discuss the principles of family medicine care. Gather information, formulate reasonable differential diagnoses, and plans for initial evaluation and management of common presentation encountered in the outpatient office setting. Manage follow-up visit for patients presenting with one or more chronic illnesses. Demonstrate competency in the elicitation of the history and performance of the physical examination. Demonstrate competency in understanding evidence-based health promotion/disease prevention plans for patients of any age and either gender. Discuss the role of Family Medicine physicians within any health care system.

FAM 810 Family Medicine Elective
Number of Students: 1/Month
Locations: Elevation Physicians
Course Director: Jeffrey Hill, DO
Offered as: 4-week rotation

General Description: Demonstrate an effective approach to the evaluation and initial management of acute and chronic illnesses commonly seen in an outpatient office setting. Demonstrate an effective approach to the wellness visit for a patient of any age or gender. Develop the skills to acquire historical information, perform a
physical examination and to communicate such findings with clinical reasoning skill. Discuss the principles of family medicine care. Gather information, formulate reasonable differential diagnoses, and plans for initial evaluation and management of common presentation encountered in the outpatient office setting. Manage follow-up visit for patients presenting with one or more chronic illnesses. Demonstrate competency in the elicitation of the history and performance of the physical examination. Demonstrate competency in understanding evidence-based health promotion/disease prevention plans for patients of any age and either gender. Discuss the role of Family Medicine physicians within any health care system.

**FAM 811 Outpatient Family Medicine Urban Setting**
Number of Students: 1/Month  
Locations: Avicenna Medical Clinic, Toronto, ON  
Course Director: Reza Ghobadian, MD  
Offered as: 6-week rotation

General Description: Demonstrate an effective approach to different types of patients to address patient-physician relationship in a greater detail. Perform various dermatologic and musculoskeletal procedures such as joint injections. Apply the required knowledge, skills, and attitude to develop an effective patient-physician rapport. Apply the required knowledge and skills to formulate accurate medical diagnoses and prioritize management options. Apply the required knowledge and skills to interpret diagnostic imaging studies, and perform different types of injections and dermatologic procedures routinely utilized in primary care.

**INTERNAL MEDICINE**

**INT 801 Internal Medicine Sub-I**
Number of Students: 2/Month  
Locations: Highland Hospital—Alameda Health System  
Course Director: Archana Sridhar, MD and Jennifer Hughes, MD  
Offered as: 4-week rotation

General Description: Students will be able to gather a medical history, perform a physical examination, interpret common diagnostic tests, prioritize a differential diagnosis, and recommend and execute a management plan for common in-patient internal medicine patient presentations. Students will be able to organize and communicate their clinical thinking both in the form of written notes and oral presentations. Students will be able to communicate and collaborate in an inter-professional team of other healthcare providers, out-patient providers, consultants, RNs, and ancillary staff. Students will be able to communicate effectively with patients and caregivers. Students will transition patients safely across the healthcare system.

**INT 802 Inpatient Medicine Sub-I**
Number of Students: 1/Month  
Locations: Kaiser South Sacramento  
Course Director: Gary Chu, MD  
Offered as: 4-week rotation

General Description: The major goal of the Medicine Sub internship is to construct the clinical environment for the senior student to develop inpatient case management responsibilities in the broad field of internal medicine that will allow confident transition to resident level responsibilities in all disciplines. The student will be directly supervised by faculty attending. Procedures required by the patient, will be performed by the student depending on experience and safety. Students will be required to keep a log of their patients, listing dates seen and diagnoses. After completing this course, the student should be able to: A. Perform a comprehensive history and
physical exam for the purpose of evaluation and management of multiple patient care problems B. Write effective hospitalization orders, including diagnostic tests and medications C. Recognize acute care medical problems, as well as ethical and managed care issues D. Obtain basic technical skills suitable to subinternship level of training E. Develop a post-discharge, aftercare plan F. Coordinate support services, including social work activities, nursing home transfers, and clinic visits. G. Perform responsible internal medical care management decisions. H. Introduction to the field of cross covering patients in a two hundred plus beds hospital during afterhours.

INT 813 Internal Medicine Elective
Number of Students: 6/Month
Locations: Mulitple
Course Director: Zahid Iqbal, MD
Offered as: 4-week rotation

General Description: Students will assume responsibilities quite similar to those of an intern, although with fewer patients. The student will be a member of a general medicine ward service consisting of an attending physician, residents, interns, and usually one “third year” student. Attending Rounds are made daily. Demonstrate proficiency in history taking and physical examination, present it in a concise and well-organized format, and document the encounter in the EMR. Develop differential diagnoses of common presenting complaints. Demonstrate knowledge of the natural history of disease. Develop and Discuss evidence-based management plan and associated order plan. Demonstrate recognition and therapy of medical emergencies. Outline indications and interpretations of commonly ordered tests. Demonstrate proficiency with medical procedures such as nasogastric tube placement, venipuncture, lumbar puncture, thoracentesis, paracentesis, etc. Demonstrate medical record keeping (e.g., data collection and recording, appropriate format for writing consultations). Provide oral presentations of clinical cases. Demonstrate team approach and utilization of allied health personnel.

INT 814 Internal Medicine Elective
Number of Students: TBD
Locations: Lincoln, Rhode Island
Course Director: Hugo M. Yamada, MD
Offered as: 4-week rotation

General Description: Demonstrate knowledge in the management of chronic disease. Outline recommended adult screening (colon cancer, breast cancer, diabetes, etc.). Demonstrate a strong physician-patient relationship for continuity of care. Demonstrate ability to administer care to a diverse patient population. Outline management of patients at all stages of adulthood (young adults, adult, and geriatric).

INT 815 Internal Medicine Outpatient Elective
Number of Students: 2/Month
Locations: Prima Medical Group, San Rafael, CA
Course Director: Joseph Habis, MD
Offered as: 2-week rotation

General Description: Students will be able to gather a medical history, perform a physical examination, interpret common diagnostic tests, prioritize a differential diagnosis, and recommend and execute a management plan for common in-patient internal medicine patient presentations. Students will be able to organize and communicate their clinical thinking both in the form of written notes and oral presentations. Students will be able to communicate and collaborate in an inter-professional team of other healthcare providers, out-patient providers, consultants, RNs, and ancillary staff. Students will be able to communicate effectively with patients and caregivers. Students will transition patients safely across the healthcare system.
INT 816 Outpatient Internal Medicine Primary Care
Number of Students: 2/Month
Locations: Chinese Hospital and Clinics, Daly City
Course Director: Dr. Aung Kyaw S. Maung
Offered as: 4-6-week rotation

General Description: The major goal of this elective is to construct the clinical environment for the senior students to develop outpatient management responsibilities in the broad field of medicine that will allow confident transition to resident level responsibilities in all disciplines. The students will be directly supervised by faculty attending. Procedures required by the patient, will be performed by the student depending on experience and safety. After completing this course, the student should be able to: A. Perform a comprehensive history and physical exam for the purpose of evaluation and management in an outpatient clinical setting. B. Gather information, formulate differential diagnoses, and propose plans for the initial evaluation and management of patients with common presentations. C. Manage follow-up visits with patients having one or more common chronic diseases. D. Recognize acute care medical problems, as well as ethical and managed care issues E. Demonstrate competency in advanced elicitation of history, communication, physical examination, and critical thinking skills. F. Obtain basic technical skills suitable for the level of training G. Perform responsible medical care management decisions.

CARDIOLOGY

CAR 810 Cardiology Clinical Rotation
Number of Students: 2/Month
Locations: Sutter Medical Center, Sacramento
Course Director: John Chin, MD
Offered as: 2-6 week rotation

General Description: Students will be exposed to a wide range of cardiology experiences including inpatient consultation and procedures, as well as advanced heart failure and transplant clinical committee meetings, and outpatient office setting. They will be expected to have some initiative and ask questions and as such will “get out of it what they put into it.”

CAR 811-1 Cardiology Elective
Number of Students: 2/Month
Locations: Chinese Hospital and Clinics, Daly City
Course Director: Aung Kyaw S. Maung, MD
Offered as: 2-6-week rotation

General Description: The major goal of this elective is to construct the clinical environment for the senior students to develop outpatient management responsibilities in the broad field of medicine that will allow confident transition to resident level responsibilities in all disciplines. The students will be directly supervised by faculty attending. Procedures required by the patient, will be performed by the student depending on experience and safety. After completing this course, the student should be able to: A. Perform a comprehensive history and physical exam for the purpose of evaluation and management in an outpatient clinical setting. B. Gather information, formulate differential diagnoses, and propose plans for the initial evaluation and management of patients with common presentations. C. Manage follow-up visits with patients having one or more common chronic diseases. D. Recognize acute care medical problems, as well as ethical and managed care issues E. Demonstrate competency in advanced elicitation of history, communication, physical examination, and critical
thinking skills. F. Obtain basic technical skills suitable for the level of training G. Perform responsible medical care management decisions.

**CAR 811-2 Cardiology Elective**  
Number of Students: 1/Month  
Locations: Kaiser South Sacramento  
Course Director: TBD  
Offered as: 4-week rotation

General Description: Student will work with faculty attending to evaluate and manage cardiac patients in both an outpatient and inpatient setting. Students will be introduced to reading EKG’s, echo, and observe cardiac cauterization and transesophageal echo. To become familiar with management of patients with heart failure, myocardial infarction, arrhythmia, etc. and to provide medical students with experience in addressing and managing patients with cardiac issues.

**CAR 811-3 Cardiology Elective**  
Number of Students: TBD  
Locations: SMG Cardiology – Sutter Medical Center - Sacramento  
Course Director: Sailesh Shah, MD., Malcom McHenry, MD.  
Offered as: 4-week rotation

General Description: Diagnosis and therapy of common cardiac diseases. Fundamentals of cardiac anatomy and physiology – working knowledge of common cardiac disease states – cardiac pharmacology interpretation of cardiac diagnostic studies (ECG, ECHO, Stress testing, and Nuclear Imaging) – cardiac history and physical examination. 12 lectures: ECG, ECHO, coronary anatomy and physiology, methods for evaluating cardiac disease, valvular heart disease, guideline: lipids, hypertension, risk factors, arrhythmia including ablation therapy, atrial fibrillation, peripheral vascular disease (arterial and venous), devices including resynchronization therapy, CAD diagnosis and treatment, treatment of CHF.

**ENDOCRINOLOGY**

**END 810 Endocrinology**  
Number of Students: 2/Month  
Locations: Sutter Medical Center - Sacramento  
Course Director: William Cushard, MD  
Offered as: 2-4 week rotation

General Description: Understand real life experiences of an endocrinologists and learn the clinical utilities and techniques related to endocrinology and metabolism. Describe the disease process in patients by integration of clinical findings (history and physical) with laboratory tests. Explain the pathogenesis and pathophysiology of diseases of the pituitary, thyroid, parathyroid, adrenal, pancreas (endocrine), and reproductive organs. Outline the function of the endocrine organ and explain the metabolism of their hormones and their effects on the body. Develop adequate experience with the use of insulin, thyroid hormones, corticosteroids, and other related therapeutic agents. Develop adequate experience in endocrine related surgery and diagnostic procedures such as thyroid needle biopsy, vascular ultrasound in diabetic patients, and bone mineral density testing.
GASTROENTEROLOGY

GST 810 Gastroenterology
Number of Students: TBD
Locations: Mercy San Juan Medical Center
Course Director: Kuldip Sandhu M.D. FACG AGAF
Offered as: 4-week rotation

General Description: Students will gain experience and knowledge about the specialty of Gastroenterology and the conditions that specialists in this field are involved in diagnostic, management and treatment of. Demonstrate the pertinent aspects of the history and physical exam findings in patients with gastroenterological conditions. Explain the appropriate evaluative steps for patients with gastroenterological symptoms Illustrate knowledge about common gastroenterological diseases and their treatment and management.

GST 811 Gastroenterology
Number of Students: TBD
Locations: Kaiser Morse
Course Director: Linda Lee, MD
Offered as: 4-week rotation

General Description: Students will gain experience and knowledge about the specialty of Gastroenterology and the conditions that specialists in this field are involved in diagnostic, management and treatment of. Demonstrate the pertinent aspects of the history and physical exam findings in patients with gastroenterological conditions. Explain the appropriate evaluative steps for patients with gastroenterological symptoms Illustrate knowledge about common gastroenterological diseases and their treatment and management.

HEMATOLOGY AND ONCOLOGY

HEM 810 Hematology and Oncology
Number of Students: TBD
Locations: Hematology and Oncology Associates of Northern California
Course Director: Mansoor Javeed, MD
Offered as: 4-week rotation

General Description: Approach to a patient with hemonc ailments, history taking, relevant physical exam, interpretation of common blood tests, reviewing smears if needed, discussing imaging results and making a sound provisional diagnosis. Outline the pertinent history and physical exam considerations in patients with hematologic and oncologic diseases. Demonstrate knowledge about patients with hematology and oncology related diseases. Interpret common blood test results and their indications. Demonstrate knowledge about blood smear findings.

INFECTIOUS DISEASE

INF 810-1 Infectious Disease
Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: TBD
Offered as: 4-week rotation
General Description: The student will be able to: 1. Understand the pathophysiology of common infectious diseases. 2. Understand the clinical presentation and diagnostic approach to patients with Infectious Diseases. 3. Understand the approach to management and the use of antimicrobials or antivirals in patients with infectious diseases. To show an understanding of how to identify, diagnose and treat various bacterial, viral, fungal infections. Infer how to diagnose and treat various orthopedic/bone infections, neutropenic fevers, bacteremias. Demonstrate an understanding of management of infections in an immunocompromised host. Infer how to manage and counsel HIV patients. Show an understanding of the principles behind antimicrobial stewardship.

INF 810-2 Infectious Disease
Number of Students: 2/per 2-week Block
Locations: Kaiser Sacramento and Morse
Course Director: Lenora Lee, MD
Offered as: 2-week rotation

General Description: Learn about common infectious diseases and how to treat them. Learn about HIV care. Understand the importance of antimicrobial stewardship and the judicious use of antimicrobials. To show an understanding of how to identify, diagnose and treat various bacterial, viral, fungal infections. Infer how to diagnose and treat various orthopedic/bone infections, neutropenic fevers, bacteremias. Demonstrate an understanding of management of infections in an immunocompromised host. Infer how to manage and counsel HIV patients. Show an understanding of the principles behind antimicrobial stewardship.

INF 812 California Northstate University of Medicine M4 Infectious Diseases Clerkship
Number of Students: 2/Month
Locations: Kaiser Permanente Medical Center, Modesto
Course Director: Razeq A. Shetab, M.D.
Offered as: 4-week rotation

General Description: This Infectious Disease clerkship is scheduled with a preceptor who is an expert in this field. The student will experience the day to day activities of clinicians as he/she assists in the care of their patients. Exposure to patients in the clinic and hospital setting will give the student opportunity to practice interview and documentation skills. The student may be given the opportunity to participate in procedures as the preceptor determines his/her readiness. The curriculum for this rotation is based on nationally recognized curriculum modified for fourth year elective focus from the Clerkship Directors for Internal Medicine. Clinical rotations for California Northstate University College of Medicine are developed in a community training model. Community training involves placing students in a busy physician’s practice with learning objectives that direct the student’s focus. It is the student’s job to learn rather than the physician’s job to teach. Learning is “just in time” taking advantage of educational opportunities that present and augmenting learning opportunities with reading or modules to complete the objectives. In this model, students are expected to develop lifelong learning patterns of accessing appropriate resources rather than being told what to do and when to do it (prescriptive learning). The required texts will provide information necessary for successfully studying in this rotation, but some students may prefer suggested texts or others. Preceptors may direct the student to their favorite texts or online resources.

PALLIATIVE MEDICINE

INT 810-1 Palliative Medicine
Number of Students: 2/Month
Locations: Kaiser Permanente Medical Center, Modesto
Course Director: Paul Luong, MD, MBA, FACP, HMDC
Offered as: 2-4-week rotation

General Description: Palliative Medicine is an essential component of medical care for patient with a life limiting illness. This course provides medical students and residents a framework in which to effectively to acquire Palliative Care knowledge and skill sets necessary to care for serious ill patients and their families.

**INT 810-2 Palliative Medicine**  
Number of Students: TBD  
Locations: Mercy San Juan Medical Center  
Course Director: Hari Nagaraj, MD  
Offered as: 2-4-week rotation

General Description: Palliative Medicine is an essential component of medical care for patient with a life limiting illness. This course provides medical students and residents a framework in which to effectively to acquire Palliative Care knowledge and skill sets necessary to care for serious ill patients and their families. Demonstrate an effective approach to manage pain and other symptoms. Apply the principle of psychosocial and spiritual support in patient care. Demonstrate an effective approach to deliver serious news and explain prognostic information to the patients and their families. Apply disease trajectory and goals of care discussions in patient care. Demonstrate life care planning addressing complex family dynamics and caregiver support. Clinical experiences includes inpatient and outpatient Palliative Care experiences, pain management, disclosing serious news, offering prognostic information, disease trajectory, addressing goals of care, conducting family conference, home visits (optional).

**INT 811 Introduction to Palliative Medicine**  
Number of Students: 2/Month  
Locations: Kaiser Sacramento and Roseville Hospitals  
Course Director: Greg Naughton, MD, Margaret Leung, MD  
Offered as: 4-week rotation

General Description: Course goals are to provide the medical student with a foundation in the principles of Palliative Medicine, particularly communication skills, pain and symptom management, and care of the dying patient. Demonstrate proper communication skills, particularly between providers and patients/families. Demonstrate the ability to organize and conduct a family meeting. Discover the basics of pain and symptom management. Improve prognostic awareness. Demonstrate the basic skills of care for the dying patient. Clinical experiences includes Hospital-based care, following patients on the in-patient Palliative Medicine team Hospice-based care, spending several days with hospice care providers in the community.

**INT 812 Palliative Medicine and Hospice Medicine**  
Number of Students: 1/Month  
Locations: Methodist Hospital of Southern California  
Course Director: Michael Cortez, MD  
Offered as: 2-4-week rotation

General Description: Students will learn to integrate medical scientific methodology and practice with their patients psychosocial issues to develop plans to maximize patients and family quality of life. Integrate solutions and approaches to improve quality of life for a wide variety of challenging patients. Develop hands-on experience, including care clarification and explanation, with patients with difficult medical issues and patients who require end-of-life care. Clinical experiences includes In-patient / out-patient (Home) rounds.
PULMONARY

PUL 801 Pulmonary & Critical Care Medicine Sub-I
Number of Students: 2/Month
Locations: Sutter Roseville Medical Center, Mercy San Juan Hospital
Course Director: Vanessa Walker, D.O., Muhammad Afzal, M.D., Peter Murphy, M.D.
Offered as: 2-4-week rotation

General Description: This rotation offers an opportunity for a 4th-year student to work jointly with a faculty attending to evaluate and manage critically ill medical and surgical patients. Typical patient diagnoses include myocardial infarction and cardiac arrest, acute respiratory failure (asthma, COPD, pneumonia, ARDS), delirium and coma, stroke, severe sepsis, toxic ingestions, diabetic ketoacidosis, cardiogenic and septic shock, renal and hepatic failure, and post-operative co-management. A comprehensive evidence-based management approach based in physiology will be taught. Students will be responsible for patient evaluations and notes and will progress to performance of diagnostic and therapeutic procedures as appropriate. Students will become familiar with basic mechanical ventilator management and arterial blood gas interpretation, and the value of a multi-professional team approach to the care of the critically ill.

PUL 810 Pulmonary & Critical Care
Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: TBD
Offered as: 4-week rotation

General Description: This rotation offers an opportunity for a 4th-year student to work jointly with a faculty attending to evaluate and manage critically ill medical and surgical patients. Typical patient diagnoses include myocardial infarction and cardiac arrest, acute respiratory failure (asthma, COPD, pneumonia, ARDS), delirium and coma, stroke, severe sepsis, toxic ingestions, diabetic ketoacidosis, cardiogenic and septic shock, renal and hepatic failure, and post-operative co-management. A comprehensive evidence-based management approach based in physiology will be taught. Students will be responsible for patient evaluations and notes and will progress to performance of diagnostic and therapeutic procedures as appropriate. Students will become familiar with basic mechanical ventilator management and arterial blood gas interpretation, and the value of a multi-professional team approach to the care of the critically ill.

PUL 811 Pulmonary & Critical Medicine
Number of Students: TBD
Locations: Simi Valley Hospital & Los Robles Regional Medical Center
Course Director: Duc Nguyen, MD
Offered as: 4-week rotation

General Description: Learn how to manage respiratory diseases both inpatient and outpatient. Build the skill to manage COPD, asthma, pneumonia. Build the skill to manage critical patients in the ICU. How to manage sepsis, stroke, and many other critical illnesses in the ICU.

PUL 812 Pulmonary & Critical Care & Sleep Medicine
Number of Students: TBD
Locations: Mercy San Juan Medical Center and Mercy Sleep Lab
Course Director: Hari Nagaraj, MD
Offered as: 4-week rotation
General Description: This rotation offers an opportunity for a 4th-year student to work jointly with a faculty attending to evaluate and manage critically ill medical and surgical patients. Typical patient diagnoses include myocardial infarction and cardiac arrest, acute respiratory failure (asthma, COPD, pneumonia, ARDS), delirium and coma, stroke, severe sepsis, toxic ingestions, diabetic ketoacidosis, cardiogenic and septic shock, renal and hepatic failure, and post-operative co-management. A comprehensive evidence-based management approach based in physiology will be taught. Students will be responsible for patient evaluations and notes and will progress to performance of diagnostic and therapeutic procedures as appropriate. Students will become familiar with basic mechanical ventilator management and arterial blood gas interpretation, and the value of a multi-professional team approach to the care of the critically ill.

**RENAL**

**REN 810-1 Nephrology**
Number of Students: 2/Month
Locations: Kaiser Medical Center Roseville
Course Director: Jignesh Patel MD
Offered as: 2-week rotation

General Description: Basics of Renal disease, Acute Kidney Injury, Chronic Kidney Disease, Hypertension, Electrolyte abnormalities and introduction to dialysis and kidney transplant. Make use of above topics to achieve a sound knowledge in renal physiology. Clinical experiences includes office and hospital patients.

**REN 810-2 Nephrology**
Number of Students: 2/Month
Locations: Modesto Kidney Medical Group, Modesto, CA
Course Director: Ge Yuqiang, MD
Offered as: 2-week rotation

General Description: Basics of Renal disease, Acute Kidney Injury, Chronic Kidney Disease, Hypertension, Electrolyte abnormalities and introduction to dialysis and kidney transplant. Make use of above topics to achieve a sound knowledge in renal physiology. Clinical experiences includes office and hospital patients.

**REN 810-3 Nephrology**
Number of Students: 2/Month
Locations: Capital Nephrology Medical Group
Course Director: David Pai, M.D.
Offered as: 2-4-week rotation

General Description: Basics of Renal disease, Acute Kidney Injury, Chronic Kidney Disease, Hypertension, Electrolyte abnormalities and introduction to dialysis and kidney transplant. Make use of above topics to achieve a sound knowledge in renal physiology. Clinical experiences includes office and hospital patients.

**RHEUMATOLOGY**

**RHE 810-1 Rheumatology**
Number of Students: 1/Month
Locations: Roseville, CA
Course Director: Anupama Bhat, MD
Offered as: 2-4-week rotation

General Description: Rheumatology is a study of autoimmune disease and in this specialty students would learn clinical signs and symptoms of some of the most common rheumatologic autoimmune diseases like Rheumatoid arthritis, Lupus, Psoriatic Arthritis, Ankylosing spondylitis and various other autoimmune disease. Evaluate history and physical examination specific for rheumatologic disease process. Maximize basic knowledge about most common disease like Rheumatoid arthritis, Osteoarthritis, lupus and gout.

**RHE 810-2 Rheumatology**
Number of Students: TBD
Locations: TBD
Course Director: Robert Fogel Shapiro, MD
Offered as: 4-week rotation

General Description: Rheumatology is a study of autoimmune disease and in this specialty students would learn clinical signs and symptoms of some of the most common rheumatologic autoimmune diseases like Rheumatoid arthritis, Lupus, Psoriatic Arthritis, Ankylosing spondylitis and various other autoimmune disease. Students will demonstrate how they examine and analyze patients with rheumatic diseases. When appropriate they should analyze laboratory assessment and radiographic characteristics of the diseases. Clinical experiences includes seeing patients with history and physical exam followed by review of labs and images with further discussion.

**SPORTS MEDICINE**

**SPM 814 First Degree Care Sports Medicine**
Number of Students: 2/Month
Locations: Rocklin Family Practice and Sports Medicine
Course Director: Bill S. Chima, M.D
Offered as: 4-week rotation

General Description: Improve and acquire high skills in MSK exams / OX / Injections / Fracture & concussion management / XRAY interpretation. Demonstrate and describe basic structures and functioning of body joints. Demonstrate proper injections technique. Observe and manage fractures and concussions. Acquire high skills in XRAY interpretation.

**SPM 815 Sports Medicine (Not currently offered)**
Number of Students: TBD
Locations: Kaiser Permanente Sports Medicine Center, Sacramento
Course Director: Jason D. Brayley, MD
Offered as: 2-6-week rotation

General Description: Apply acquired skills of clinical exposure to most common acute sports injuries, initial evaluation and management and return to play consideration when relevant. Apply the required medical knowledge and skills to examine large joints. Discover and demonstrate an appropriate sports concussion evaluation. Apply acquired skills of clinical exposure to appropriate x-rays evaluation and interpretation.
NEUROLOGY

NEU 810 Clinical Neurosciences Elective
Number of Students: 4/Month
Locations: CNUCOM
Course Director: For-Shing Lui, MD
Offered as: 4-week rotation

General Description: Build the understanding of neurology through better understanding of more basic clinical neurosciences. Apply and demonstrate basic neurosciences theory and principles in clinical application. Utilize the literature and apply the knowledge for evidence based practice. Apply self-directed learning methodologies to clinical practice. Create and propose teaching sessions and tutorials for other medical students. Regular meeting with the preceptor to discuss learning and teaching activities. Regular self-directed learning activities with literature search and understanding.

NEU 811 Clinical Neurology Elective
Number of Students: 2/Month
Locations: Multiple
Course Director: Rochelle Frank, MD
Offered as: 2-4-week rotation

General Description: Improve the understanding of neurology in the clinical setting, inpatient and/or ambulatory. Deepen and expand Neurology skills and knowledge acquired in 3rd year clerkship in areas of: history taking, physical exam, formulating differential diagnosis and management plan, improve skills in oral and written presentations, procedural skills (when available). Explore selected subspecialties in Neurology in more depth. Continue to refine skills in professionalism, communication and collaboration. Acquire skills in patient management as part of the neurology team under supervision by the preceptor. Clinical Neurology experiences in both inpatient and outpatient settings. Different areas of neurology will be offered including adult and pediatric neurology and general and subspecialty opportunities. Schedule will be customized by student request in available general and subspecialty areas.

NEU 813 Pediatric Neurology Elective
Number of Students: 1/Month
Locations: Sacramento and Roseville
Course Director: Rochelle Frank, MD
Offered as: 2-4-week rotation

General Description: Clinical experience in Pediatric Neurology
Improve the understanding of neurology with expansion to Pediatric Neurology in the clinical setting, inpatient and/or ambulatory. Deepen and expand Neurology skills and knowledge acquired in 3rd year clerkship. Continue to refine skills in professionalism, communication and collaboration. Acquire skills in patient management as part of the neurology team under supervision by the preceptor. Focus of Clinical Pediatric Neurology experiences in both inpatient and outpatient settings. Different settings of Pediatric Neurology will be offered. Schedule will be customized by student request in available locations.

NEU 814 Pediatric Neurology Elective with Clinical Neurology/subspecialty option
Number of Students: 1/Month
Locations: Sacramento and Roseville
Course Director: Rochelle Frank, MD
Offered as: 2-4-week rotation

General Description: Clinical experience in Pediatric Neurology
Improve the understanding of neurology with expansion to Pediatric Neurology in the clinical setting, inpatient and/or ambulatory. Deepen and expand Neurology skills and knowledge acquired in 3rd year clerkship. Continue to refine skills in professionalism, communication and collaboration. Acquire skills in patient management as part of the neurology team under supervision by the preceptor. Focus of Clinical Pediatric Neurology experiences in both inpatient and outpatient settings. Different settings of Pediatric Neurology will be offered. Schedule will be customized by student request in available locations.
General Description: Clinical experience in Pediatric Neurology with the option to explore selected subspecialties/adult Neurology in more depth. Improve the understanding of neurology in the clinical setting, inpatient and/or ambulatory. Deepen and expand Neurology skills and knowledge acquired in 3rd year clerkship. Continue to refine skills in professionalism, communication and collaboration. Acquire skills in patient management as part of the neurology team under supervision by the preceptor. Focus of Clinical Pediatric Neurology experiences in both inpatient and outpatient settings with option of 1-2 weeks of Neurology/subspecialty rotations. Different areas of neurology will be offered primarily in pediatric neurology and but with the option of various Neurology/subspecialty (adult or pediatric) opportunities. Schedule will be customized by student request in available general and subspecialty areas.

NEU 815 Pediatric Epilepsy/Neurophysiology - University of Bristol (Not currently offered)
Number of Students: 1/Month
Locations: University of Bristol, UK
Course Director: Nick Kane, MD
Offered as: 4-week rotation

General Description: This elective rotation is a four (4) weeks structured clinical experience under direct supervision of a neurophysiology attending designed to provide the student experience in diagnosing, treating and caring for patients with neurological conditions. There will be an emphasis on pediatric epilepsy and psychogenic nonepileptic seizures. Students are expected to attend and participate in all scheduled educational activities at the host institution. Students will learn how to perform a comprehensive history and physical examination in a timely manner and will gain experience in generating differential diagnoses, assessments, and diagnostic and treatment plans for many common neurologic conditions. It is expected they will gain a better understanding of neurophysiological techniques to diagnose and treat patients. Students will learn what it is like to be on a comprehensive consulting team. Student will be responsible for contributing to a research publication in pediatric epilepsy.

NEUROSURGERY

NSG 880S Neurosurgery
Number of Students: 1/Month
Locations: Mercy General Hospital, Sutter General Hospital
Course Director: Michael Chan, MD
Offered as: 4-week rotation

General Description: The student will be exposed to the breadth of neurosurgery pathologies such as brain tumors, vascular lesions, pain syndromes, spinal deformities, trauma of the brain or spine. The student will have the opportunity to work in the clinic as well as in the operating room and assist on neurosurgical operations. It is recommended that the student has a strong interest in the surgical specialties for this rotation. Apply knowledge of neuroanatomy to describe etiopathogenesis and management of neurosurgical disorders. Apply knowledge of neuroanatomy to interpret neuro-radiological findings. Explain the mechanisms of traumatic brain injuries and outline their management. Outline the clinical course including management of common neurosurgical problems including tumors, stroke, and spinal disease. Clinical experiences includes assist in surgery, round in the hospitals, evaluate patient in the clinic.
OBSTETRICS AND GYNECOLOGY

OGB 801 Obstetrics/Gynecology Sub-I
Number of Students: 3/Month
Locations: Multiple
Course Director: Jean-Claude Veille, MD
Offered as: 4-week rotation

General Description: This is a course that exposes the student to general obstetrics and gynecology. The student will rotate through obstetrical services including labor and delivery, the gynecological services, and ambulatory clinics. There will be one call day. This rotation is designed to prime and prepare the student for an OBGYN internship. Medical students interested in an OBGYN residency are encouraged to experience this course. Be able to diagnose and manage common gynecological and obstetrical conditions. Demonstrate improved history and physical on gynecological and obstetrical patients. Get focused exposure to obstetrical procedures, especially vaginal deliveries and cesarean sections. Assist in gynecological procedures in the operating room. Become more familiar with managing the ambulatory gynecological and prenatal patient. Obtain experience in working as a member of a healthcare team.

OGB 810 Clinical OB-GYN Elective
Number of Students: 1/Month
Locations: Multiple
Course Director: Jean-Claude Veille, MD
Offered as: 2-4-week rotation

General Description: Improve the understanding of Ob-Gyn in the clinical setting, inpatient and/or ambulatory. Deepen and expand Ob-Gyn skills and knowledge obtained during their 3rd year clerkship. Explore selected subspecialties in Ob-Gyn [Oncology, MFM, Infertility, UroGyn, Family Planning] in greater depth. Continue to refine such areas as professionalism, communication and collaboration. Acquire skills in patient management as part of the Ob-Gyn team under supervision by the preceptor. Apply knowledge of basic & clinical sciences into medical practice. Obtain and deliver a complete concise, clear and concise oral and written presentation of a patient’s history and examination in a more complex setting. Distinguish normal from abnormal findings and the ability to localize the likely sites of lesion in the Ob-Gyn system from available clinical information. Utilize and interpret common tests used in diagnosing common condition in Ob-Gyn. Formulate a differential diagnosis based on clinical information and relevant history. Demonstrate a systematic approach to the diagnosis and management of common Ob-Gyn conditions and formulate a logical management plan. Understand Ob-Gyn Subspecialties and their applications. Function as a “contributor” to the team managing the Ob-Gyn disorders.

OPHTHALMOLOGY

OPH 810 Ophthalmology Clerkship
Number of Students: 2/Month
Locations: Martel Eye Medical Group, Retinal Consultants
Course Director: James Martel, MD; Joseph Martel, MD; David Telander, MD
Offered as: 4-week rotation

General Description: Students are expected to develop the basic skills of medical problem solving, basic science integration, case management, procedural competence, and professional behavior as it pertains to the field of ophthalmology. They will accomplish this by: Refining history taking, refining the physical examination, and
developing a reasonable differential diagnosis. Interpret how to function as a physician in an Ophthalmology setting. Students will observe, participate, and manage in the care of clinical patients.

**OPH 811 Ophthalmology**
Number of Students: 1/Month
Locations: TBD
Course Director: Randal Pham, MD
Offered as: 4-week rotation

General Description: Students are expected to develop the basic skills of medical problem solving, basic science integration, case management, procedural competence, and professional behavior as it pertains to the field of ophthalmology. They will accomplish this by: Refining history taking, refining the physical examination, and developing a reasonable differential diagnosis. Interpret how to function as a physician in an Ophthalmology setting. Students will observe, participate, and manage in the care of clinical patients.

**ORTHOPEDIC SURGERY**

**ORT 880S Ortho Spine**
Number of Students: TBD
Locations: Sutter General
Course Director: Mark Hambly, MD
Offered as: 4-week rotation

General Description: Students will see and evaluate patients in office, observe surgery, make rounds. Develop experience in understanding medical and surgical options for patients with spine disorders. Clinical experiences includes evaluate patients with spine conditions and understand decision making in operative and non-operative care.

**ORT 881S Orthopedic Surgery**
Number of Students: 1/Month
Locations: Mercy San Juan Hospital, Sutter Roseville Medical Center
Course Director: Hunter Greene, MD
Offered as: 4-week rotation

General Description: General observations and interactions with patients. Rounds in the hospital and observation in surgery. Extend knowledge in orthopedic anatomy and physical exam skills of the extremities. Build basic surgical skills. Clinical experiences includes office, OR, rounding, surgery center. Mix of time between surgery and clinic. Possible weekend trauma call.

**ORT 882S Orthopedic and Podiatry**
Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: TBD
Offered as: 4-week rotation

General Description: The student will be able to develop skills in the Orthopedic Surgery Department by examining and supporting the residents and faculty. The student will be able to make use of the outpatient clinic, emergency room, ambulatory surgery, and the main operating room. To show students to the field of orthopedics
and it's various subspecialties and research opportunities. To demonstrate a general feel for the training involved in Orthopedics. To show basic orthopedic skills such as x-ray interpretation, splinting and casting techniques, suturing techniques, physical exam. To extend the student knowledge of anatomy as it applies to musculoskeletal conditions, and to introduce student to orthopedic treatments and the medical decision making process.

**OTOLARYNGOLOGY - ENT**

**OTO 813 Otolaryngology Elective**  
**Number of Students:** 1/Month  
**Locations:** Sacramento, Roseville, Carmichael  
**Course Director:** Michael J. Kearns, MD, FACS, Physicians at Ear, Nose, and Throat offices  
**Offered as:** 2-4-week rotation

General Description: Develop an understanding of the diagnosis and treatment of many common otolaryngology diseases. Improve examination skills. Develop recognition of head and neck pathology. Demonstrate the understanding of when to refer for specialty opinion. On site experience at one of three SacENT offices as well as surgery centers and hospitals in Sacramento and Roseville areas.

**OTO 814 Pediatric Otolaryngology**  
**Number of Students:** TBD  
**Locations:** Kaiser Roseville Women and Children’s Center  
**Course Director:** Brian Rubinstein, MD  
**Offered as:** 2-week rotation

General Description: Two week rotation includes the analyzing of pediatric otolaryngology problems presented to specialist for diagnosis and treatment. The student develop skills in the clinic, hospital and operating room. Learn the basic anatomy and surgical anatomy of the head and neck, including surface and internal anatomy. Learn the embryologic foundations of pediatric otolaryngologic disorders. Recognize signs and symptoms of pediatric otolaryngologic disorders. Use appropriate tests and evaluation methods for pediatric otolaryngologic disorders. Complete a comprehensive history and physical examination. Develop a diagnosis for pediatric otolaryngologic disorders. Demonstrate and describe the surgical and nonsurgical management of pediatric otolaryngologic disorders. Student will accompany physician and participate in clinic in the evaluation of head and neck surgery patients.

**OTO 881S Otolaryngology - Head and Neck Surgery**  
**Number of Students:** 1/Month  
**Locations:** Modesto and Stockton  
**Course Director:** Dr. Phyllis Peng, Dr. Mark Bitgood, Dr. Ji-Eon Kim; pending: Dr. Elizabeth Lai, Dr. Maricel Cubangbang; to be submitted: Dr. Chris Whang, Dr. Bumni Ajose, Dr. Kenneth Mak  
**Offered as:** 4-week rotation

General Description: The objective of this course is to give a broad exposure to the clinical and surgical aspects of otolaryngology. Students will become acquainted with the experience of outpatient office, operating room care, and overall integrated care between patients, general otolaryngologists, and other health care providers including primary care, audiology, and speech therapy. In the office, students will have the opportunity to obtain focused history, perform a complete head and neck exam, formulate differential diagnosis, and management plan. In the operating room, students will perform chart reviews prior to surgery and be knowledgeable about relevant surgical anatomy and treatment options for common surgical disorders like otitis media, sinusitis, pediatric obstructive sleep apnea, and thyroid disorders. At the end of the rotation, the student will be expected to present a
topic that was encountered during the rotation. The course setting includes Kaiser Stockton Medical offices (with a potential opportunity for facial plastics exposure), Modesto and Manteca Kaiser Hospitals. The hours may potentially run from 7 AM to 7 PM without overnight call.

**OTO 882S Head and Neck Surgery**
Number of Students: 1/Month  
Locations: Kaiser Roseville  
Course Director: Vishal Doctor, MD  
Offered as: 4-week rotation

General Description: Understanding common head and neck pathologies and management strategies. Develop competency with the head and neck exam and identification of normal anatomy. Demonstrate understanding of head and neck surgical anatomy. Show familiarity with common head and neck pathology and basic management strategies. Demonstrate familiarity with common head and neck emergencies basic management strategies. Students will work with staff surgeons in clinic and operating room

**PHYSICAL MEDICINE & REHABILITATION**

**PMR 810-1 Physical Medicine and Rehabilitation (PM&R)**
Number of Students: 1/Month  
Locations: Kaiser South Sacramento  
Course Director: TBD  
Offered as: 4-week rotation

General Description: This elective provides a custom designed experience in the field of Physical Medicine and Rehabilitation based on the interests of the individual student. Students can elect for a broad exposure to the field, or concentrate in a specific area including outpatient, acute inpatient, subacute inpatient, trauma, and electromyography testing. This elective is recommended for students contemplating a career in physical medicine and Rehabilitation as well as those anticipating a career in primary care.

**PMR 810-2 Physical Medicine and Rehabilitation (PM&R)**
Number of Students: 1/Month  
Locations: Kaiser Sacramento and Roseville  
Course Director: Steven T. Chan, MD  
Offered as: 4-week rotation

General Description: Understand the diversity and scope of PM&R practice (neurologic rehab, musculoskeletal, spine, interventional procedures, electrodiagnostic tests, inpatient and outpatient care). Understand basic principles involved in the above (see Learning Objectives, below). Demonstrate competency in basic neurologic, spine and functional examinations. Complete a history, physical exam and functional assessment on individuals with disabilities. Develop strategies to reduce the risk of secondary complications for the disabled individual (contractures, skin breakdown, DVT, etc). Learn the process of adaptation to disability and reintegration of the disabled patient into the family, community and workplace. Learn basic spine diagnoses, spine exam and management/treatment options. Learn about role of electrodiagnostic tests in the medical workup process. Spine clinic appointments (Kaiser Sacramento and Roseville); Injection Risk Orientation (Kaiser Roseville); and outpatient physical therapy appointments. Interventional spine procedures – fluoroscopy and ultrasound-guided (Kaiser Ros). Electrodiagnostic clinic appointments (Kaiser Sac, Ros). Neurorehab clinic appointments (Kaiser Sac, Ros); amputee clinic; and outpatient physical, occupational, speech therapy appointments. Hospital consultations, neuro-ICU and stroke rounds, inpatient therapy sessions (Kaiser Sac).
PED 801 Pediatrics Sub-I  
Number of Students: 3/Month  
Locations: Multiple  
Course Director: Ravindra Khaira, MD  
Offered as: 4-week rotation  

General Description: The medical students will function as interns. Each student will meet with Dr. Khaira on the first day to determine how the rotation is to be structured with educational goals and objective. Rotations are based on the individual interests and needs of the student. Students will care for patients of all socioeconomic backgrounds and with a mix of pathology ranging from bread and butter problems to tertiary care inpatient pediatrics.

PED 810 Pediatric Cardiology  
Number of Students: TBD  
Locations: Sutter Med Center, Sutter Roseville, Mercy San Juan, Mercy Folsom, Methodist  
Course Director: Stanley Wright, M.D., Naveen Manohar, M.D., James Hill, M.D.  
Offered as: 4-week rotation  

General Description: Develop understanding of cardiovascular physiology and pathophysiology of both congenital and acquired heart disease in outpatient and inpatient environments. Gain exposure to both noninvasive and invasive methods used in diagnosing and treating congenital and acquired heart disease in the pediatric population. Develop skills in obtaining a history and performing a physical examination focused on the cardiovascular system. Students will develop skills in performing a physical examination focused on the cardiovascular system, including feeding patterns, respiratory assessment and evaluation of perfusion and auscultation of innocent and pathologic murmurs. Interpretation of electrocardiograms and chest x-rays. Gain understanding of the utility of echocardiography, cardiac catheterization, stress test, MRI and CT imaging modality in the assessment of congenital and acquired pediatric cardiovascular disease. Learn approaches to the evaluation of chest pain, palpitations, dizziness and syncope. Develop skills in the assessment of newborns, infants and children with suspected congenital or acquired cardiovascular disease. Recognize signs and symptoms associated with congestive.

PED 815 Pediatric Intensive and Inpatient Care  
Number of Students: TBD  
Locations: Multiple  
Course Director: Ravindra Khaira, MD  
Offered as: 4-week rotation  

General Description: Provide students a broad exposure and experience in managing or participating in the care of hospitalized pediatric patients in both pediatric critical care and/or inpatient units at an accredited Children’s Hospital. Observe or participate in the management of hospitalized infants, children adolescents, and young adults. Develop the experience required for medical management issues unique to the pediatric population. Observe/participate in procedures commonly required in the medical management of pediatric inpatients. Students will be assigned to PICU at Sutter Medical Center’s Women and Children’s Center during their 4 week rotation.
**PED 816 Medicine - Pediatrics**  
Number of Students: 1/Month  
Locations: San Diego Internal Medicine and Pediatrics Associates  
Course Director: Karim Mansour, MD  
Offered as: 4-week rotation  

General Description: To gain exposure to the combined field of internal medicine and pediatrics. Develop clinical experience through in a setting that is unique to internal and pediatric medicine which is proctored by a physician who is board certified in both internal medicine pediatrics. Assume a role where students are responsible for making initial evaluations, carrying out diagnostic procedures and provide ongoing management of patients. Clinical experiences includes history-taking, physical examination, diagnostic procedures and patient management.

**PED 817 Pediatric Hematology-Oncology**  
Number of Students: 1/Month  
Locations: San Diego Internal Medicine and Pediatrics Associates  
Course Director: Kent Jolly, MD  
Offered as: 4-week rotation  

General Description: To gain exposure to the field of hematology-oncology. Provides exposure in a setting that is unique to pediatric hematology oncology which is proctored by a physician who has specialized in the field. The student should assume a role where they are responsible for making initial evaluations, carrying out diagnostic procedures and provide ongoing management of patients.

**PATHOLOGY**

**PTH 810 Pathology**  
Number of Students: TBD  
Locations: Hospital Laboratory  
Course Director: Anna Wong, MD  
Offered as: 4-week rotation  

General Description: Understand the role of pathology, appropriate utilization of lab tests. Understand the behind the scenes work that is involved in clinical laboratory result reporting. Demonstrate the functions of a community pathologist: Anatomic pathology: frozen sections, intraoperative consultation, hospital slide review and special studies, gross examination of surgical specimens. Clinical lab management: take part in the hematology, blood bank, chemistry, attend hospital lab meetings as appropriate, lab management.

**PLASTIC SURGERY**

**PLS 801S UC Davis Plastic Surgery Acting Internship**  
Number of Students: 1/Month  
Locations: UC Davis Medical Center  
Course Director: Michael S. Wong, MD  
Offered as: 4-week rotation  

General Description: Gain a greater appreciation of Plastic Surgery, as the surgical specialty that restores, reconstructs, or alters the human body in response to congenital or acquired deformities following trauma, weight
changes, or the natural aging process. It encompasses many specialty areas including craniofacial, hand, microsurgery, breast and aesthetic surgery. Elective is flexible with primary emphasis on reconstructive and aesthetic surgery at the University Hospital with opportunities for assisting in the operating room. The rotation also includes Trauma call to provide experience with the evaluation and management of maxillofacial and hand trauma with opportunities for suturing of lacerations as well as closed reduction and splinting of common hand fractures. Clinical experiences gained through pre-rounding, morning report, clinical rounds, surgeries, out-patient clinics, and consultations in all settings.

**PLS 880S Plastic Surgery**
Number of Students: TBD
Locations: AHMC San Gabriel Valley Hospital
Course Director: Lawton Tang, MD
Offered as: 2-4-week rotation

General Description: The specialty of plastic and reconstructive surgery is that branch of surgery concerned with the restoration of normal form and function. It is a varied specialty involving adults and children and encompassing a wide range of conditions in different parts of the body. A major proportion of the workload involves take part in urgent or emergency cases. One of the most interesting aspects of the specialty is the frequency with which plastic surgeons relate with surgeons from other specialties such as general surgery, orthopedics, otorhinolaryngology, and maxillofacial surgery. In these cases, the reconstructive techniques that plastic surgeons have at their disposal are recognized. The specialty is also closely associated with aesthetic surgery where body parts are surgically altered to bring about an improvement in appearance. Major research areas include wound healing and scar management. The specialty is known for the innovations and advances it has brought to the practice of surgery in general. This includes the use of microsurgical techniques, the understanding of the blood supply of the skin and soft tissues allowing the introduction of many types of flap used in clinical practice, and the introduction of tissue engineering methods in the development of skin substitutes.

**PSYCHIATRY**

**PSY-M 810 Psychiatry Elective**
Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: Andrew Bregman, MD
Offered as: 3-week rotation

General Description: Students should learn common psychiatric conditions such as Major Depressive Disorder, Generalized Anxiety Disorder, Bipolar Disorder, and schizophrenia. Students will be expected to present cases and develop a treatment plan as well as interview patients. Time will be spent in outpatient psychiatry. Daily interaction with preceptor as well as clinical presentation on topic of preceptor’s choosing. To practice taking a psychiatric history and developing a treatment plan in the outpatient setting. Conducting a psychiatric history. Develop a treatment plan as well as the basis for psychiatric admission. Being able to recognize the difference between neurological and psychiatric causes. Outpatient and hospital inpatient clinical experiences.

**PSY-M 811 Psychiatry Elective**
Number of Students: 1/Month
Locations: Sierra Vista Hospital
Course Director: Edgar Catingub, MD
Offered as: 4-week rotation
General Description: The focus of this elective will be on interviewing skills and documentation. Specifically for fourth year, the focus would be on independence and autonomy. This would include researching unique aspects of the student’s patient’s presentation, and presenting/utilizing that information directly for patient care. There would be more of an expectation for the independent treatment planning, as well as independent interactions with case management and patient’s families. Daily “check-in” with the student at the end of the day rather than throughout, and there would be more critical discussion regarding the rationale behind clinical conclusions and treatment decisions. Furthermore, if there are third year student on rotation, as well, I would delegate some teaching responsibilities to the fourth year student.

**PSY M-830 Child and Adolescent Psychiatry**
Number of Students: TBD
Locations: South Beach Psychiatric Center, Staten Island, NY
Course Director: Alex Mikhelson, MD
Offered as: 4-week rotation

General Description: In psychiatry, child and adolescent patients differ significantly from adults in many ways, such as being in various stages of neurocognitive and general development. The goal of the course is primarily to introduce and develop skills and knowledge related to psychiatric treatment in these patients including topics such as: Diagnosis of psychiatric illness in child and adolescent patients, including differentiating variations in development and behavior from pathology. Interview and collection of collateral. How the developmental, family, environment (home, school, etc.) and other factors contribute to and interact with mental illness in children and its treatment, as well as potentially confound or confuse diagnosis. Challenges and subtleties of treatment of the patient population. For example, management of the milieu of the patient and their illness. Psychopharmacological treatment of the child and adolescent patients. For instance, idiosyncratic drug reactions in the population such as suicidal ideation caused by treatment with SSRIs. Psychotherapeutic treatment of CAP patients. Intersections of CAP psychiatry with law and society. Student will observe and carry out interview of patients and family, write notes and orally present cases (including histories, MSE, formulation, assessment and plan) to preceptor.

**RADIOLOGY**

**RAD 810-1 Radiology**
Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: TBD
Offered as: 4-week rotation

General Description: After the 4-week rotation through various sections of the department, student(s) should be able to: 1. Understand the basic principles of radiography and identify basic daily routine clinical radiographic examinations and interpretation of common diseases-pathologies. 2. Understand the basic principles of computed tomography (CT) and magnetic resonance imaging (MRI) its daily routine clinical examinations including appropriate indications and grasp basic cross-sectionaly anatomy as well as common pathologic conditions/diseases. 3. Understand the basic principles of fluoroscopy and basic daily routine clinical fluoroscopic examinations and procedures. 4. Understand the basic principles of nuclear medicine and its daily routine clinical examinations and interpretation. 5. Understand the basic principles of interventional radiography and its daily routine clinical examinations and procedures.

**RAD 810-2 Radiology**
Number of Students: TBD
Locations: Alhambra Hospital, Los Angeles, CA
Course Director: James Lin, MD.
Offered as: 4-week rotation

General Description: Students will gain experience and knowledge about the specialty of Radiology; indications, interpretations, and common interpretation errors. After the 4-week rotation through various sections of the department, student(s) should be able to: 1. Explain the basic principles of radiography and identify basic daily routine clinical radiographic examination and interpretation of common diseases-pathologies. 2. Explain the basic principles of computed tomography (CT) and magnetic resonance imaging (MRI). Its daily routine clinical examinations including appropriate indications and grasp basic cross-sectional anatomy as well as common pathologic conditions/diseases. 3. Explain the basic principles of fluoroscopy and basic daily routine clinical fluoroscopic examinations and procedures. 4. Explain the basic principles of nuclear medicine as its daily routine clinical examination and interpretation. 5. Explain the basic principles of interventional radiography and its daily routine clinical examinations and procedures.

RAD 811-1 Interventional Radiology
Number of Students: 1/Month
Locations: Kaiser South Sacramento
Course Director: TBD
Offered as: 4-week rotation

General Description: Understand the basic technical principles of image-guided procedures using fluoroscopy, ultrasound, and CT and application into intervention in organ systems. Students are exposed to a wide range of procedures performed by a practicing Interventional Radiologist. Understand the clinical principles of interventional radiography as applied to disease processes and importance of active patient management. Develop mastery of arterial and venous anatomy. Demonstrate familiarity with use of ultrasound and ultrasound guided needle access. Develop mastery of Seldinger technique. Demonstrate familiarity with use of guide wires, catheters, and microcatheter systems. Demonstrate familiarity with angioplasty equipment, stents, and embolic agents. Demonstrate understanding of clinical role of IR in caring for the critically ill patient. Develop advanced understanding of interventional oncology especially in treatment of hepatocellular carcinoma. Demonstrate familiarity with venous and arterial interventions. Develop understanding of clinical role of IR in caring for patients in the outpatient setting. Students will work with other residents/fellows.

RAD 811-2 Interventional Radiology
Number of Students: TBD
Locations: AHMC Whittier Hospital
Course Director: Bay Ngo, MD
Offered as: 4-week rotation

General Description: This elective is designed to provide the student with a better understanding of the central role of interventional radiology in the evaluation and management of patients through participation in reading room readouts, radiology call, case presentations, interactive labs, and observation of the various imaging modalities and procedures. The student will participate in clinical services interacting with and observing the faculty. Explain the spectrum of diagnostic imaging (e.g., ultrasound, CT, MR, nuclear medicine, angiography, and conventional radiology) and diagnostic and therapeutic image-guided interventional techniques. Extend the appreciation for the role of the radiologist as consultant to the clinician and importance of providing detailed clinical information in the radiology consult. Extend the appreciation for the fundamental role and value of imaging to provide timely, accurate, and actionable diagnostic information regarding a patient’s medical condition. Identify the indications and appropriateness of imaging studies for common clinical problems. Elaborate the risks of medical imaging (including radiation induced cancer, MRI safety, contrast nephropathy, and contrast reactions). Construct the appropriate sequencing of exams and the limitations of diagnostic imaging tests,
including cost-effectiveness of imaging studies. Apply basic interpretive skills to evaluate common imaging studies – predominantly plain films and CT. Take part in imaging interpretation, including basic study identification, recognition of normal radiographic and cross-sectional anatomy, and common pathology as depicted on common studies. Explain how common procedures and imaging are performed. Utilize the PACS system to retrieve and review images.

**RAD 812 In-house Radiology Elective**  
Number of Students: 4/Month  
Locations: CNUCOM  
Course Director: Randall Enstrom, MD  
Offered as: 4-week rotation

General Description: Students will understand the basics and important normal and abnormal imaging findings in X-ray, CT, MRI and other imaging modalities. Clinical experience includes imaging case discussions and presentations. Perform, document, and present complete history and physical exam and interpret laboratory, radiologic, and other relevant data to develop a differential diagnosis, assessment and evidence-based management plan, that includes procedural or operative management if indicated. Perform and document a concise and well-organized daily progress note that includes relevant laboratory, radiologic data and incorporates pertinent 24-hr events. Describe the management of common disorders in the core discipline, including procedures and operative management if indicated. Research the clinical condition of a given patient with appropriate evaluation of literature and other available resources. Recognize patients who are critically ill or require emergent care and develop appropriate initial steps of care for stabilization Demonstrate sensitivity to the concerns of patients and their families regarding the patient’s illness and communicate plans of care with compassion and empathy (including benefits, side-effects of therapy, quality of life and end-of-life issues).

**RAD 816 Nuclear Medicine, Molecular Imaging and Theranostics**  
Number of Students: 1/Month  
Locations: Kaiser Hospital-Roseville, Sacramento  
Course Director: David Ng MD, FACP, FACNM with assistance from Erno Gyetvai MD, Andrew Klonecke MD, Judy Nguyen MD and Kit Tittiranonda MD  
Offered as: 2-4-week rotation

General Description: Transition a MS4 to Intern/Resident Physician. Demonstrate knowledge of Nuclear Medicine items which pertain to USMLE Step 2. Demonstrate the ability to tackle what is the next step imaging test asked on standardized examinations. Demonstrate the ability to manage Hyperthyroid patients. Demonstrate the ability to gather a focused history on patients with Hyperthyroidism. Describe the appropriate utilization of cardiac imaging guidelines. Describe Fleishner criteria for management of pulmonary nodules (both solid and subsolid). Demonstrate the knowledge of basics of PET, molecular imaging and theranostics. Students will be under supervision of preceptor in the reading room and Thyroid clinic. Student will observe technologist acquiring images.

**RAD 817 Dignity Hospital Radiology**  
Number of Students: 2/Month  
Locations: Mercy San Juan Medical Center  
Course Director: Brian Fellmeth, MD, MSJ Radiologists  
Offered as: 2-4-week rotation

General Description: Understand the role of Diagnostic Imaging and Interventional Radiology in patient management. For those considering a career in Radiology, acquire insight on what the practice of Radiology is all about. Learn an approach for examining their patient’s imaging studies as a non-radiologist. Learn how to image
efficiently and use Radiologic consultation as a resource. Learn the hazards of exposure to ionizing Radiation for diagnostic purposes. Learn the breath of Interventional Radiological procedures available to solve clinical problems. Learn the components of a Radiologic report and what can and cannot be expected. Shadow the activities of one of the 4 on site Radiologists. The student will be given the flexibility to choose which Radiologist to work with depending on their specific interests. Switching from one to the other during the day is acceptable if not encouraged.

**RAD 818 Neuroradiology**
Number of Students: TBD
Locations: Kaiser and others
Course Director: Anna Nidecker, MD., Jonathan Hartman, MD., et al
Offered as: 4-week rotation

General Description: Understand and learn neuroradiology as an extension of general radiology. Apply and understand neuroanatomy through neuroimaging. Apply and understand theories and practice of different neuroradiological entities. Apply and understand neuropathology through neuroimaging. Analyze cost-effectiveness of different neuroimaging entities. Regular learning and interaction on clinical sites with the preceptors.

**SURGERY**

**SUR 801S Surgery Sub-I**
Number of Students: 3/Month
Locations: Multiple
Course Director: Scott Braley, MD
Offered as: 4-week rotation

General Description: This elective will give the student the opportunity to participate, as a sub-intern, in the care of the general surgical patient. The student should choose between working on one of three services which is preferred, (including Colorectal, GI/Oncology, and Trauma-Critical Care) pending availability. You will function as a sub-intern, taking care of patients particularly assigned to you. In-house call one night in four, including weekends. Familiarity with the treatment and diagnosis of patients who have colorectal diseases, anorectal disorders, and GI tract emergencies. Learn to manage patients with lower GI surgical diseases. Opportunity for see patients in clinic and on the ward and discuss management with staff. Observe and assist in patient surgery in the Operating Room. Assist with minor procedures on the ward. Attend teaching conferences, Morbidity and Mortality Conferences, Tumor Board, etc.

**SUR 881S Head and Neck Surgery**
Number of Students: 1/Month
Locations: Kaiser Roseville
Course Director: Vishal Doctor, MD
Offered as: 4-week rotation

General Description: Understanding common head and neck pathologies and management strategies. Develop competency with the head and neck exam and identification of normal anatomy. Demonstrate understanding of head and neck surgical anatomy. Show familiarity with common head and neck pathology and basic management strategies. Demonstrate familiarity with common head and neck emergencies basic management strategies. Students will work with staff surgeons in clinic and operating room.
SUR 882S Trauma Surgery
Number of Students: 2/Month
Locations: Mercy San Juan Hospital
Course Director: Amir Amiri, MD
Offered as: 4-week rotation

General Description: The Trauma Team responds to trauma resuscitations and is involved with immediate evaluation and management of critically injured patients in the emergency department. Students should demonstrate the initial evaluation and management of the trauma patient and basic principles of resuscitation in the emergency department and in the ICU/trauma ward. The student will also demonstrate the familiarity with physiology, management and outcome of multiple organ dysfunctions. They will gain exposure to procedure: central access, chest tube placement, wound debridements, tracheostomies, laceration repairs, etc. The will make use of the exposure to complex and difficult decision making involving the injured patient. Participate in the team caring for patients in floor and ICU rounds, OR cases, ER evaluations & ER/ICU/ward procedures. Students are expected to attend trauma department monthly meetings and case review. Specific dates and times will be provided at the beginning of each rotation.

CAR 880S Cardiovascular Surgery
Number of Students: 1/Month
Locations: Sutter Medical Center Sacramento
Course Director: Robert Kincade, MD
Offered as: 4-week rotation

General Description: Explain to students about basic cardiovascular physiology and surgical treatments. Interpret cardiovascular pathophysiology and develop basic surgical skills. Clinical experiences includes pre-assessment, operative experience, and post-operation care. Once a week in addition to cath, ECHO, and transplant conferences.

CAR 881S Cardiothoracic Surgery
Number of Students: TBD
Locations: Mercy San Juan Hospital
Course Director: Costanzo DiPerna, MD
Offered as: 4-week rotation

General Description: Students will be able to work with the cardiothoracic team led by Dr. DiPerna to gain exposure and knowledge about cardiothoracic surgery and the different conditions where this surgery is needed as well as pre- and post-operative management of patients. Analyze Lung Cancer, Esophageal Cancer, Thymus cancer, Airway Disease, Esophageal Reflux Disease, Diaphragm Disease, Chest wall issues, critical care for surgery, Lung Screening, Management of Stage IV cancers, Interventional Bronchoscopy and Esophagostomy. Clinical experiences includes rounds, seeing patients, consults, and surgery.

UROLOGY

INTUR 810 Urology Elective
Number of Students: 2/Month
Locations: Roseville, CA
Course Director: David Couillard, MD
Offered as: 4-week rotation
General Description: Obtain Informed consent for urological procedures. Demonstrate a working knowledge of the preoperative preparation and postoperative management of urological patients, including discharge planning. Demonstrate knowledge of various urological procedures, including their indications, non-surgical alternatives, risks, benefits and their expected outcomes. Demonstrate an advanced understanding of the performance of common urological procedures and participate actively in their performance. Demonstrate a working knowledge of basic surgical techniques, including patient positioning, suturing and assisting. Develop a knowledge of the common quality initiatives (i.e. deep vein thrombosis, infection that promote improved patient outcomes, and patient safety protocols).

**INTERDISCIPLINARY ELECTIVES**

**MED 810 OSCE Program Assistance**
Number of Students: 4/Session  
Locations: CNUCOM  
Course Director: Rudolph Holguin, MD  
Offered as: 3 sessions every Tuesdays and Thursdays  
Discretion: 40 hours = 4 credits, Avg. 10 hours/week  

General Description: Review and improve history taking, physical exam and presentation skills by teaching and mentoring M1 & M2 students during their Medical Skills courses. Practice and demonstrate history taking, physical examination, and clinical presentation skills by teaching and mentoring M1 and M2 students during their Medical Skills course. Develop course related organizational skills to enhance the learning environment for M1 & M2 students during their Medical Skills course. Apply self-directed learning methodologies to clinical skills.

**COM 901 Honors Medical Research**
Number of Students: TBD  
Locations: CNUCOM  
Course Director: TBD  
Offered as: 2-6-week rotation  

General Description: The student(s) (preferably a team of three students) must have a minimum of one faculty advisor, who must be a COM faculty, and can also have a non-COM faculty/community physician supervisor with whom the research is conducted. The supervisor should be familiar with research in the relevant discipline(s), to ensure that the direction and monitoring of the student's progress is informed by up to date subject knowledge and research developments. Breadth of experience and knowledge of the supervisor will mean that the student always has access to someone with experience of supporting research student(s) through to successful completion of their scholarly project. The students and supervisor must arrive to an agreement regarding the research topic, the timeline, and the amount of contact time for the progress of the project. The students are responsible for taking the CITI courses (a basic course for all students, and a more oriented course for those students that need IRB approval). The students are responsible for other aspects of the project, including enlisting the aid of any required supervisor, coordinating communication with the supervisor and the Course Director, helping the supervisor in obtaining the necessary protocol approvals (IRB, IACUCC, IBC) if needed, developing the hypothesis of work, performing the planned study, preparing a document with the results, data analysis, and conclusions, and preparing the poster for the Research Day.

**COM 903 Leadership**
Number of Students: TBD  
Locations: CNUCOM
Course Director: Louise F. Glaser, MD
Offered as: 2-week rotation

General Description: Given the complex and demanding environment of healthcare, effective leadership is often required to meet these challenges. This course is designed to provide you with tools to give you access to being who you need to be, to be a leader, and to exercise leadership effectively as you encounter each of these challenges. This course is a leadership laboratory in which you will discover that leadership does not always mean a position, a title, time, money, influence, or any of the traits typically “required” to be a leader or produce the results of a leader. Instead of more knowledge about leadership, you will gain access to actually being a leader and effectively exercising leadership as your natural self-expression, in any situation and under any circumstances.

COM 904 Healers Art
Number of Students: TBD
Locations: CNUCOM
Course Director: Louise F. Glaser, MD, Rochelle Frank, MD
Offered as: TBD

General Description: The Healers Art Course is a defined curriculum created in 1991 by Dr. Rachel Remen (Professor, UCSF School of Medicine) is currently being taught in over 90 medical schools. The purpose of the course is to explore the human dimension of health care including learning self-care strategies and recognizing the value of service. Topics covered will include defining an individual’s purpose and commitment in medicine, tools to deal with grief and loss, recognizing awe and mystery in the practice of medicine, and open dialogue about mission and service. The course and its small group discussions offer an opportunity for open dialogue, depth of discussion and interaction with faculty that is unique and not available in other areas of the curriculum.

COM 906 United States Armed Services Officer Training
HLT 810 Wellness - Leadership, Healers Art, Mindfulness and Compassionate Conversations
Number of Students: 10-15, or more with notice
Locations: CNUCOM
Course Director: Louise Glaser, MD and Rochelle Frank, MD
Offered as: 4 weeks rotation in March 2019

General Description: This course includes: Being a Leader (Glaser), Healers Art (Frank), Mindfulness and Meditation (Gerriets/Glaser) and Compassionate Conversations/Reflective writing (pending). The components of the elective are intentionally symbiotic and will allow for each of you to expand you capacity for self-care, self-reflection, and clarity, intention and integrity in your being and actions as leaders for yourself, your family and friends and in your career. Skills introduced in the course will also provide you ways to maintain compassion with yourself and patients throughout your career. There will be some assignments to enhance the value of the course content including some reflective writing, some mindfulness practices and a Leadership Project. The leadership project is an opportunity to look at and make an impact on something in your own life that matters to you: increase your performance in some area of life, alter something that is not working as well as you’d like, something that you have always wanted to do and never quite got it done, an upgrade to relationships with family or friends, an increase your level of health or fitness and more.

HLT 812 Clinical Nutrition
Number of Students: TBD
Locations: Fair Oaks, CA
Course Director: Judy Fields, MHS, RD, FADA
Offered as: 2-6-week rotation
General Description: To cover nutrition thru the life cycle of your future patients: anemia, cancer, hypertension, cardiovascular disease, diabetes, infancy, pediatrics, pregnancy and lactation, aging and chronic disease, obesity, sports, stress and nutrition support, and supplements.