

Duke University
School of Medicine

Two-Week Selective Courses of Instruction

Fall 2009



Anesthesiology

ANESTH-220C. CLINICAL ANESTHESIOLOGY. (Operating Room). Students will participate in the pre-, intra-, and post-operative anesthetic management of patients while assigned 1:1 to an anesthesiologist. Clinical assignments will include the general and cardiothoracic Operating Rooms, as well as subspecialty areas and pain management. Additional hands-on practice will occur in the Patient Safety Center (human simulator). There will be problem-based learning sessions on pre-operative patient evaluation and perioperative risk, anesthetic techniques and monitoring, airway management, pharmacology, physiology, and anatomy; and procedures may include vascular access, airway management, and selected others; Grand Rounds; and other conferences. Max: 4, Min: 1; Contact: Cheryl Jacobs at 681-6437 or via email at cheryl.jacobs@duke.edu. *S. Grant, S. Pyati, and Staff*

ANESTH-221C. PAIN MANAGEMENT. Students will participate in both acute and chronic pain management. Each student is assigned daily to an individual fellow or attending physician who supervises the student's active involvement. This course emphasizes a multidisciplinary approach appropriate for the individual patient. The effect of pharmacotherapy, interventional procedures, physical and psychotherapy is stressed. Students will observe various interventional procedures. Students will also attend weekly pain conference, journal club, and biweekly multidisciplinary pain conference. The course is offered throughout the year. If more than 1 absence is anticipated, the elective should be re-scheduled. Students with questions may contact the course director, Billy Huh, M.D., (beeper #7990). Credit:2 Enrollment: 1. Location: Duke Pain Clinic-932 Morreen Rd. @7:15 a.m., 2nd floor-conf. room. Contact: Students should contact Lynda Zirillo at 668-2386 or email Dr. Huh (if Lyn is not available) via email (huh0000@mc.duke.edu) to confirm the meeting time for the first day of classes or if they have questions. *Huh, Ginsberg, pain fellows*

Community and Family Medicine

COMMFAM-220C. OCCUPATIONAL MEDICINE: PREVENTION & POPULATIONS. This selective provides hands-on experiences in the broad, interdisciplinary field of Occupational Medicine. The focus is to apply key principles of Preventive Medicine, Population Health Management, and Prospective Health through participating in a broad range of occupational medicine activities. In clinic visits students will examine patients, interpret multiple types of information (beyond typical medical data), and communicate with key parties. Throughout the Durham area, they will assess worksite/environmental hazards and assist in reporting on them. . Working with Faculty mentors, they will find and draw upon information resources (many of which may be new to them) to address complex questions. All students will engage in interactive learning modules on prevention; attend didactic sessions on key aspects of Occupational Medicine, and perform problem/project-based learning. Students will complete their own health risk assessments, as well as helping with health promotion activities and health risk communications to patients. Prerequisite: Permission of instructor is required. Enrollment Max. 1. For information about the meeting time and location, please contact Jody Crabtree 681-3066 or via email at jody.crabtree@duke.edu. *Sam Moon, Brian Caveney and Carol Epling*

COMMFAM-221C. PRACTICAL CLINICAL NUTRITION. This course will cover the topics in clinical nutrition that will be of most use to medical students interested in primary care. Participants will have a chance to observe and practice interviewing and counseling skills. Topics will include weight management, eating disorders, diabetes, hypertension, cancer, pregnancy, middle age, elderly, and addictive behaviors, and population-based nutrition. Enrollment Max. 6. Location: Hanes House 302 - 9:00 a.m. Contact: Jody Crabtree at jody.crabtree@duke.edu for permission. *Gwen Murphy, PhD, and Franca Alphin, MD*

COMMFAM-224C. PROCEDURAL SKILLS IN PRIMARY CARE. Students will receive instruction and experience in Office based procedures common to primary care providers. This 2 week elective will consist of workshops, observation and participation in procedures such as simple skin biopsies, arthrocentesis of major joints, trigger point injection, joint injections, colposcopy, etc. The didactic experience will include instruction and guided reading focusing on indication for procedures, informed consent and post-procedure care. For more information please contact Jody Crabtree at 681-3066. Enrollment Max. 4. *Martinez-Bianchi, Trujillo*

Medicine

MEDICINE-223C. GASTROENTEROLOGY SELECTIVE. In order to expose students to the field of Gastroenterology, students will rotate on two services. Students will spend one week on the Gastroenterology Consult Service at Duke Hospital or at the Durham VA Medical Center. On these services, students will perform inpatient consults and be able to see a variety of general gastroenterology procedures. Students will also spend one week on the Biliary Service at Duke. Students will see patients with biliary disorders and be able to see ERCP and endoscopic ultrasound procedures. Enrollment Max. 2. Location: Duke S. Endo Unit (Clinic 2H) - Promptly at 8:00 a.m. For more information, please contact Jill Rimmer, 684-2819 or via email at jill.rimmer@duke.edu. *Garrett, Muir and Staff*

Obstetrics and Gynecology

OBGYN-220C. PRENATAL DIAGNOSIS. Students will spend 2 weeks in one of the prenatal diagnostic units within Duke. They will divide their time between diagnostic ultrasound and genetic counseling. Some time will also be allotted to lab time in the cytogenetics lab. The student will be expected to learn common fetal malformations, genetic disorders and syndromes and be able to discuss their etiologies and evaluation. The student will be expected to understand common screening techniques in the prenatal period including pedigree analysis and risk assessment. Enrollment Max. 1. Location: Fetal Diagnostic Center is located at Lofts at Lakeview, 2608 Erwin Road, Suite 200 (above Chipolte Grill). . - 8:15 a.m. For more information, please contact Dr. Brita Boyd via email at brita.boyd@duke.edu and/or Regan Matthews at chall002@mc.duke.edu regarding start time . Dr. Boyd can be reached by phone at 919-684-2595. Students should meet at 8:30am in the Fetal Diagnostic Center reading room the first Monday of the rotation. *Boyd*

OBGYN-221C. INTRODUCTION TO REPRODUCTIVE ENDOCRINOLOGY. This course is a short introduction to reproductive endocrinology for students interested in a career in reproductive medicine. Because of the short duration of the course, each student is encouraged to focus either on the clinical or laboratory aspects of the service. During the course, each student will research a focused question in reproductive endocrinology and present his/her

findings at a division meeting. Students must contact the instructor prior to registration. Credit: 2. Enrollment Max. 1. Location: 5704 Fayetteville Road, Durham, NC 27713. Please contact Anne Wade at 572-4669 or by email at wade0022@mc.duke.edu for more information about the meeting time. *Behera, Walmer, Couchman, Price and Raburn*

OBGYN-222C. GYNECOLOGIC SURGERY. This two-week selective is designed to introduce the second year medical student to the surgical management of gynecologic disease, focusing on benign and urogynecologic disorders, pelvic floor reconstruction, and minimally invasive surgery. Students will be assigned to Durham Regional Hospital and participate in patient care and informal didactic instruction in the OR, wards, clinics and ED. Students will research and give informal presentations on assigned topics in gynecologic surgery. Prerequisite: must have successfully completed OBGYN 205C or COMMFAM 205C. Credit 2. Enrollment Max. 1. Please contact Dr. Jeffrey Wilkinson via email at jeffrey.wilkinson@duke.edu or Dr. Craig Sobolewski at craig.sobolewski@duke.edu to determine the place and time to meet. Wilkinson and *Sobolewski*

Ophthalmology

OPHTHAL-220C. OPHTHALMOLOGY. This ophthalmology selective is designed to introduce the second year medical student to the medical and surgical aspects of comprehensive ophthalmology, including subspecialties (neuro-ophthalmology, external disease, oculoplastics, cornea, refractive surgery, pediatrics, strabismus, glaucoma, and vitreoretinal disease). There will be didactic instruction with patient care exposure in the clinic setting and operating room. Enrollment max. 5. Location: Lobby of Eye Center. Please contact Horace Johnson at 684-6851 or via email horace.johnsonjr@duke.edu for more information. *Singh*

Pathology

PATHOL-220C. What Does A Pathologist Really Do?. The major objective of this selective is to provide the student with answers to the following questions: a) What are the major areas that comprise the practice of pathology (Laboratory Medicine)? What is Anatomic Pathology? Clinical Pathology (Laboratory Medicine)? What are the recognized sub-specialties in pathology? b) How does the pathologist function as part of the health care team? What role does a pathologist play in clinical decision making? c) If you practice Internal Medicine / Surgery / Pediatrics / Ob-Gyn / Primary Care, what can the pathologist do for you? d) What is the pathologist's role as a teacher? Students will participate in several learning experiences (2-3 days each) that involve working with faculty and residents in various sub-disciplines of pathology [e.g., autopsy, surgical pathology (frozen section diagnostic service, specimen accessioning/gross descriptions service, diagnostic services), hematopathology/flow cytometry, neuropathology, dermatopathology, cytopathology/fine needle aspiration service, molecular diagnostics, cytogenetics, immunopathology/transplantation pathology, transfusion medicine, and others]. The exact set of experiences will depend on student interests, faculty availability, and number of students on the service. In each case, every attempt will be made to give the student the types of experiences that allow for fulfillment of the course objectives. Students will attend selected conferences and seminars and will meet with the course director (or representative) at least twice during the selective. The majority of learning experiences will be in the Department of Pathology at DUMC. A few are located at DVAMC and at the Franklin Park Clinical Laboratories. Enrollment Max. 4. Location: M345 Davison (Duke S.) at 8:30 a.m. Dr.

Buckley requests that students be on time. Contact: please email Dr. Buckley at patrick.buckley@duke.edu should you have questions. *Buckley*

Pediatrics

PEDS-220C. CLINICAL GENETICS AND METABOLISM. The students will join the clinical genetics and metabolism service for DUMC and participate in all the activities of the team - outpatient clinics, inpatient consults, case conferences and didactic presentations. They will perform history-taking, pedigree construction, physical examination (including dysmorphism assessment) and construct a differential diagnosis using reading materials, internet resources and databases. They will observe genetic counseling sessions. Enrollment Max. 2. Location: Genetics Clinic in Children's Health Ctr. In work rm beside exam rms 10 & 11 - 8:30. Contact: Meet on Monday morning in the genetics clinic CHC, Level 2 contact Dr. Marie McDonald for more information. Marie McDonald Location: Genetics Clinic in Children's Health Ctr., in work room beside exam rooms 10 & 11. Meet promptly at 8:30. Please contact Dr. Marie McDonald via email, marie.mcdonald@duke.edu for more information. *Marie McDonald*

PEDS-221C. CHILD ABUSE AND FAMILY VIOLENCE. This selective provides students the opportunity to learn about child abuse and family violence, the effect of these issues on individual health needs of patients, the impact of these issues on public health, and the role of the physician to address these issues. Students will participate in the evaluation of patients in an outpatient medical child abuse clinic, observe inpatient child abuse consults, observe family based interventions, observe court proceedings, and participate in mental health didactics. Students will choose a topic in child abuse or family violence for further study and present their findings to the Child Abuse Consult team. This selective is appropriate for all students interested in learning more about family violence in adult or pediatric clinical medicine and/or public health. Enrollment Max. 3. Location: Duke Children's Primary Care Clinic, 4020 N. Roxboro Road, Durham, NC 27704. For more information and the meeting time, please contact Mr. Scott Snider at 919-479-2690. *Aditee Pradhan Narayan and Karen St. Claire*

PEDS-222C. OVERVIEW OF PEDIATRIC HEMATOLOGY-ONCOLOGY. This selective will be offered through the Division of Pediatric Hematology-Oncology within the Department of Pediatrics. During the two week course, students will experience an overview of pediatric hematology-oncology. Students will be expected to round on the in-patient service and to participate in outpatient care provided in the Children's Health Center. Students also will be asked to attend conferences, including patient care conferences, psychosocial rounds, and didactic conferences. In addition, students will meet with individual faculty and staff members for an hour three times a week to discuss specific topics including: sickle cell disease, anemia, leukemia, lymphoma, solid tumors and disorders of the coagulation system as well as psychosocial and ethical issues. Enrollment Max. 1. Location: Rm 4902 Children's Health Ctr - 8:00 a.m. Contact: For more information please contact Susan Kreissman, M.D., at 684-3401 or via email kreis001@mc.duke.edu. *Kreissman*

PEDS-223C. PEDIATRIC INTENSIVE CARE UNIT. This advanced course is designed to allow students a two-week experience in the Pediatric Intensive Care Unit (PICU). Under the supervision of faculty attendings, fellows, and residents, students participate in the care of critically ill children admitted to the PICU for multidisciplinary care. Emphasis is placed on the development of the pathophysiologic approach to the diagnosis and treatment of a broad spectrum of pediatric illnesses as they present in acute care settings. Advanced concepts in

pediatric critical care are emphasized. Students are expected to take night call with pediatric house staff. Enrollment: max 2. Location: Meet on first day at Dr. Hartman's office (5411A Duke North) at a time arranged by the student and Dr. Hartman. Contact: Students are asked to schedule a meeting with Dr. Mary Hartman by calling 681-5226. *Hartman, Cheifetz, Kern, Meliones, Schulman, Turi, and Weldon*

PEDS-224C. DEVELOPMENTAL CARE OF SICK NEWBORNS-IMPORTANCE OF TEAMWORK. This selective will introduce the student to the more "general pediatric" aspect of neonatology, namely developmental care, as well as promote the importance of teamwork in caring for premature and sick babies. Students will gain an appreciation of the importance of early intervention, both in the hospital and after discharge for high-risk infants. They will participate in the activities of the developmental team in the intensive care and transitional care nurseries and learn the important role played by psychologists, therapists and social workers in caring for these infants and their families. They will attend developmental rounds, Special Infant Care Clinic and shadow Dr. Goldstein and other members of the developmental team. Enrollment Max. 2. Location: Contact Dr. Goldstein at 681-6024 for more information. Note: This elective is offered during the spring term 2008 during section 21 only, (Feb. 18-29). Please contact Dr. Goldstein at 681-6024 for more information pertaining to the meeting time and meeting location. *Goldstein*

PEDS-226C. PEDIATRIC NEUROLOGY. Students will partake in the evaluation and management of both hospitalized and ambulatory pediatric patients with neurological disorders. Emphasis is placed on the neurodevelopmental history, neurological examination, the use of laboratory tests and radiological tools and pharmacotherapy in the diagnosis and management of childhood neurological disorders. Students will also attend and participate in conferences, including pediatric neurology conference, pediatric neuroradiology conference, and neuroscience core curriculum. For more information please contact Jesse Kaluka via email at jesse.kaluka@duke.edu. Credit 2. Max 1. *Mikati*

Psychiatry

PSYCHTRY-221C. CLINICAL INTRO TO CHILD PSYCHIATRY. This two-week course will be an opportunity to observe and learn about the specialty of child psychiatry. A series of clinical experiences with children and adolescents who are experiencing mental health problems and disorders will be offered in both an outpatient and inpatient setting. Medical Students will have opportunities to observe comprehensive evaluations, consultations, and treatments. Participation in a weekly Evidence Based Medicine seminar and didactic sessions in child psychopathology will be included. Enrollment Max. 2. Location: Children's Psych. Institute at John Umstead Hosp. in Butner, NC - 8:15 a.m. Orientation with Dr. Allsbrook. For more information, please contact Byron Turner at 416-2081 or by email at byron.turner@duke.edu. *Chrisman and Allsbrook*

PSYCHTRY-222C. GERIATRIC PSYCHIATRY. Objective: To provide exposure to the psychiatric care of geriatric patients. Students will rotate on an inpatient unit at Central Regional Hospital, and in a variety of outpatient/ consultation settings including the VA geropsychiatry clinic, the GET clinic and Nursing Homes. Students will learn about comprehensive psychiatric evaluation of older patients with a variety of psychiatric diagnoses including mood disorders, dementia, psychotic disorders, and personality disorders, usually in the context of significant medical co-morbidity. Students will also learn the bio-psycho-social approach to managing

various disorders. Students will participate in ongoing weekly didactic seminars and journal club. Enrollment Max. 2. Location: Dr. Thakur will contact students - Georopsychiatry Institute @ Central Regional Hosp. - 8:00 a.m. *Mugdha Thakur, MD*

Radiation Oncology

RADONC-220C. BRIEF EXP. IN CLINICAL RADIATION/ONCOLOGY. Radiation therapy plays an important role in the care of patients with cancer. Students will begin this course with an orientation lecture, review of an educational syllabus, and several audio-visual educational programs. This will be followed by clinical instruction in the ambulatory clinics of the radiation oncology department at Duke. Students will have an opportunity to observe/participate in the evaluation, treatment planning, and care of patients before, during, and after their radiation. Enrollment Max. 3. Location: Room 05121A Basement level, Morris Clinic. Meet promptly at 8:00 a.m. For more information, please contact Bette Walker at 668-7432. *Larrier*

Radiology

RADIOL-221C. RADIOGRAPHIC ANATOMY. This selective is designed to introduce students to pertinent radiologic anatomy. Students will be exposed to different imaging modalities in radiology, and radiographic anatomy in the form of unknowns. The goal for students is to understand relevant anatomy for radiology. Proficiency will be measured by a short quiz at the conclusion of the modules. Enrollment Max. 12, Min 1; Location: 1515 Duke North. Contact: For more information concerning the course of the meeting location and time for the first day, please contact Ms. Brantley at brant003@mc.duke.edu. *Carrico*

Surgery

SURGERY-220C. NEUROSURGICAL INTERVENTION IN THE MODERN ERA. This neurosurgery selective is designed to introduce the second year medical student to the medical and surgical aspects of comprehensive neurosurgery, including the subspecialties (cerebral aneurysm disease, intracranial malignancy in the adult, intracranial malignancy in the pediatric patient, benign intracranial tumors, peripheral nerve reconstruction, spinal surgery, traumatic brain injury, traumatic spinal cord injury). There will be didactic instruction with patient care exposure in the clinic setting, the Emergency Department, on the surgical wards and in the operating room. Enrollment Max. 2. Location: Duke North Ward 4200 - 6:00 a.m. Contact: For questions and to confirm meeting time and location, please contact Dr. Haglund by pager at 970-2106 or via email at haglu001@mc.duke.edu. *Haglund*

SURGERY-221C. SURGICAL TREATMENT OF HEARING PROBLEMS & DISEASES OF THE HEAD AND NECK, FROM INFANTS TO ELDERLY. This otolaryngology selective is designed to introduce the second year medical student to the medical and surgical aspects of comprehensive head and neck surgery, including pediatric, otology, benign disease of the upper aerodigestive tract, malignant disease of the upper aerodigestive tract, reconstruction after tumor surgery, and craniomaxillofacial, trauma. There will be didactic instruction with patient care exposure in the clinic setting, emergency department, and the operating room. Enrollment Max. 3. Location: Duke North Ward 6300 - 6:30 a.m. Contact: Please contact the on call resident at 970-1320 for information on exactly where and when to report. *Liana Puscas, MD*

SURGERY-223C. FROM COSMESIS TO RECONSTRUCTION, FROM INFANTS TO THE ELDERLY. This plastic surgery selective is designed to introduce the second year medical student to the medical and surgical aspects of comprehensive plastic surgery, including the subspecialties (hand, aesthetics, extremity salvage, soft tissue coverage, craniomaxillofacial, reconstructive microsurgery). There will be didactic instruction with patient care exposure in the clinic setting, outpatient surgery center and the operating room. Enrollment Max. 2. Location: Duke North 6300 ward at 6:00am Please contact Bridgit Burch at 681-6588 for questions and to confirm meeting time and location. Secondary contact: Dr. Scott Hollenbeck at 919-970-7198.
Zenn

SURGERY-224C. SURGICAL CRITICAL CARE IN THE MODERN ERA. The Surgical Critical Care Selective introduces the second year medical student to the comprehensive care of the critically ill surgical patient. Students participate in the care of: the postoperative patient, the septic patient, the patient after multiple trauma, the patient suffering from multi-system organ failure, and the patient with acute lung injury/acute respiratory distress syndrome. Students are part of the Surgical Critical Care team. Students present on rounds, participate in didactic sessions, and experience direct patient care exposure in the Surgical Intensive Care Unit (SICU) setting. Enrollment Max. 2. Location: Duke N. SICU, Unit 2200 - 6:20 a.m. For more information and to confirm meeting location and time, please contact: Dr. Mark Shapiro at ml.shapiro@duke.edu. Students may also email Ericka Miller at ericka.miller@duke.edu.
Shapiro, Vaslef

SURGERY-225C. MODERN THORACIC SURGERY: FROM RESECTION AND STAGING TO GENE THERAPY. This thoracic surgery selective is designed to introduce the second year medical student to the medical and surgical aspects of comprehensive thoracic surgery, including the subspecialties (benign and malignant thoracic tumors, trauma, disorders of the esophagus, tracheal reconstruction, thoracoscopic intervention, tumor staging and novel therapeutic strategies). There will be didactic instruction with patient care exposure in the clinic setting, outpatient surgery center and the operating room. Enrollment Max. 2. Location: Duke N., Ward 3100: 6:00 a.m. Contact: Students should contact Dr. D'Amico at Phone (919) 684-4891, (919) 688-5061 or via email at damic001@mc.duke.edu. *D'Amico*

SURGERY-226C. MODERN CARDIAC SURGERY: FROM CABG TO GENE THERAPY. This cardiothoracic surgery selective is designed to introduce the second year medical student to the medical and surgical aspects of comprehensive cardiac and thoracic surgery, including the subspecialties (adult ischemic Coronary Artery Bypass Grafting (CABG), adult valvular surgery, heart and lung transplantation, minimally invasive cardiothoracic surgery, congenital cardiac repair, redo cardiothoracic surgery, robotic cardiac surgery). There will be didactic instruction with patient care exposure in the clinic setting, outpatient surgery center and the operating room. Enrollment Max. 6. Location: Duke N., Ward 3300. Contact: Please email Dr. Lin at lin00003@mc.duke.edu for more information and to find out the time and location for the first day of classes. Location: Duke North, Ward 3200. Contact: Please e-mail Dr. Lin at lin00003@mc.duke.edu or call 684-4694 for more information and to find out the time and location for the first day of classes. *Lin, S*

SURGERY-227C. UROLOGY: SURGICAL TRTMENT OF BENIGN UROGENITAL PROBS & MALIGNANT DISEASES IN UROGENITAL TRACT.. This urology selective is designed to introduce the second year medical student to the medical and surgical aspects of comprehensive urologic surgery, including the kidneys, ureters, bladder and male reproductive system and its subspecialties (pediatric, incontinence in the male and the female, sexual

dysfunction, benign disease of the urogenital tract, malignant disease of the urogenital tract, reconstruction after tumor surgery, trauma). There will be didactic instruction with patient care exposure in the clinic setting, emergency department, outpatient surgery center and the operating room. Enrollment Max. 2. Location: Duke 6300, 6:30 a.m. Contact 684-5873. *Wiener*

SURGERY-229C. EARLY EXPERIENCES IN EMERGENCY MEDICINE. The American College of Emergency Physicians defines emergency medicine as "the medical specialty with the principal mission of evaluating, managing, treating and preventing unexpected illness and injury." In this selective, students will gain a firsthand exposure to the approach to the undifferentiated emergency medical patient, including essential diagnostic and therapeutic measures. Students will be paired with emergency medicine attending physicians or senior emergency medicine residents to gain exposure to the principles of emergency diagnosis, treatment, and disposition. Credit 2. Enrollment max. 2. Location: 8:00 a.m. in the conference room in the offices of the department of emergency medicine (above the ED). Contact: Students should contact Dr. Gordon should they have any questions at 684-5537 or via email davidc.gordon@duke.edu. An alternative contact is Dr. Gordon's assistant David Massung at 681-4458. *David Gordon, MD*