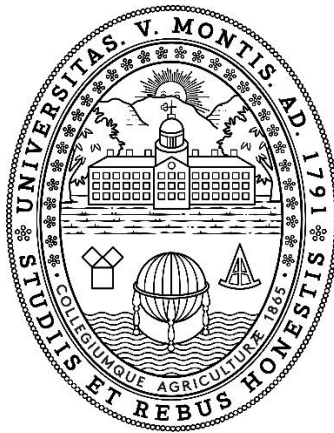


Larner College of Medicine



Visiting Student Elective Catalog 2019-2020

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Anesthesiology: ANES-1501 - Clinical Anesthesiology	
Prerequisites:	Medicine and Surgery Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	Students will be involved in caring for surgical patients in the perioperative arena. Through clinical experience and direct patient care, students will gain an appreciation for the anesthesiologist's role in the perioperative arena including pre-operative assessment; airway management; perioperative pharmacology and physiology; postoperative management. Additionally, students will gain subspecialty experience including obstetrics, pediatrics, cardiac, and chronic pain management.
Course Objectives	Under guidance by anesthesiology faculty, students will gain clinical knowledge and skillset to: 1. Perform a pre-operative airway evaluation and develop a safe airway management plan for patients in the perioperative clinical arena. 2. Formulate an anesthetic plan for low-risk patients taking into consideration co-morbidities, the surgical intervention, and post-operative goals. 3. Apply pharmacology and physiology knowledge to patients pre-operatively, intra-operatively, and post-operatively to optimize the perioperative care plan. 4. Apply advanced knowledge and skillset to the subspecialty perioperative arena which may include caring for pediatric, obstetric, cardiac and/or chronic pain patients.
Learning Activities	<ul style="list-style-type: none"> •Hands-on clinical experience •Required readings and didactic session pre-work •Problem-based learning discussions •Peer teaching •Debate •Simulation
Required Readings	Basics of Anesthesia, 6th Edition by Miller and Pardo ("Baby Miller") can be accessed through the Dana Medical Library website, Clinical Key. Daily reading assignments from Baby Miller are outlined on the student assignment and lecture schedule, and correspond with podcast and didactics.
Formative Student Assessment	The majority of the student experience and clinical exposure is 1:1 with anesthesiology faculty, including attending physicians, resident physicians as well as mid-level providers (nurse anesthetists and anesthesiology assistants). Direct feedback is provided to students on a daily basis regarding both knowledge and skillset.
Summative Student Assessment	Student evaluation will be based upon daily interaction with faculty members of the Anesthesiology Department including attending physicians, resident physicians as well as mid-level providers (nurse anesthetists and anesthesiology assistants). The final assessment is a composite of daily evaluations provided by faculty as well as

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ANES-1501 continued. . .	
Summative Student Assessment cont.	consideration regarding student participation and preparedness for educational sessions.
First Day Information	To be sent via email to student's registered for the course.
Course Director	Bridget Marroquin, MD
Course Administrator/Coordinator	Schayna Groleau, schayna.groleau@uvmhealth.org, 802-847-2415

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Emergency Medicine: EMED-9505 - Emergency Medicine	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>The goals of this course are:</p> <ol style="list-style-type: none"> 1. To equip every graduating MD with the knowledge and skills to adequately diagnose and treat all life-threatening emergencies and most common emergent problems they will encounter. 2. To provide the opportunity to learn methods of initial evaluation of multiple forms of acute medical problems, permitting the study of patients as they present without prior medical knowledge, by active participation in treatment of acute problems under the supervision of ED attendings. 3. To develop technical skills necessary for management of acute illnesses under staff supervision. 4. To expose the student to the interfaces between medicine, surgery, and other specialties. 5. To develop a fund of knowledge of basic physiology and disease processes relative to the patients seen during the rotation, and to be able to discuss the management of the illnesses that they have evaluated during their rotation. 6. To expose the student to the decision-making process relating to hospital admission. 7. The student should be able to: <ol style="list-style-type: none"> A. Demonstrate and discuss the principles of cardio-pulmonary resuscitation and other cardiac emergencies. B. Demonstrate and discuss the management of multiple trauma victims, including priorities of management, airway management, and treatment of shock. C. Be prepared to handle those emergencies that require emergent action as a. Tension Pneumothorax i. ½- needle thoracostomy b. Airway management i. ½- adults and infants c. Hemopericardium d. Life-threatening cardiac arrhythmias D. Gain skills in procedures such as a. Suturing wounds b. Draining abscesses c. Splinting d. Starting IVs e. Joint reductions
Course Objectives	<ol style="list-style-type: none"> 1. Students will work about 15- 8.5 hour shifts during the month. The first day will include orientation including reviewing a computer-based tutorial on how to use the electronic documentation tool and tracking system. 2. Students may see patients first. Each student coordinates closely with the ED attendings. After initial evaluation at the attending's discretion, further evaluation and treatment may be carried out by the student, but there must be actual patient contact by the supervising physician. The attending should be kept aware of the nature and severity of problems being seen by the student. Prior to patient discharge, the attending will review the diagnosis and instructions.

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EMED-9505 continued. . .	
Course Objectives cont.	<p>3. The patient load fluctuates widely in the Emergency Department. In addition, urgency of treatment varies widely. There are critical emergencies and non-urgent emergencies. A change of pace may often be required. There will be times when teaching and supervision can be orderly and systematic, and times when the student may act mainly as an observer and junior member of the team. Efficient, excellent patient care must take first priority. This should rarely, if ever, conflict with an excellent learning experience.</p> <p>4. Teaching Conferences are scheduled at on weekdays Monday through Friday and are required.</p> <p>5. All students are required to complete all of the COMET Emergency Medicine modules, both reading and questions, in order to pass the course. This is true regardless of the location the student chooses for her/his emergency medicine rotation (The University of Vermont Medical Center or remote site).</p>
Summative Student Assessment	<p>1. Audit of the care rendered by the student is conducted by review of the patient's charts and by observation of the student during the rotation by the attending staff.</p> <p>2. At the end of the rotation there will be a SHELF exam. Successful completion of the exam will be required of all UVM students regardless of where they do their rotation.</p> <p>3. Students must demonstrate cardiac resuscitation skills including CPR, rhythm recognition, and knowledge of cardiac drugs.</p> <p>4. Students desiring an evaluation-exit interview should schedule a time to meet with one of the attendings.</p> <p>5. A review of timely completion of COMET modules for teaching conference preparation will be done.</p>
First Day Information	
Course Director	Sarah Schlein, M.D.
Course Administrator/Coordinator	Debbie McDonald, Debbie.McDonald@uvmhealth.org, (802) 847-0629

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Medicine: MED-2502 - Clinical Cardiology	
Prerequisites:	Medicine Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>The goals of this elective are to gain:</p> <ol style="list-style-type: none"> 1. Improved skills in cardiovascular assessment and management including patient histories and physical exams. 2. Increased knowledge of selected cardiac topics including acute coronary syndromes, congestive heart failure, lipid management, etc. 3. Improved understanding of clinical cardiac problems in isolation and in the context of other surgical/medical problems. 4. Achievement of basic EKG reading and interpretation and an enhanced understanding of more advanced cardiovascular testing.
Course Objectives	<ol style="list-style-type: none"> 1. Primary assessment of inpatient cardiac consultations and presentation to attending physician. 2. Attendance at all scheduled cardiology education programs. 3. Attendance at daily inpatient cardiology teaching Rounds and coronary care unit Rounds. 4. Primary EKG reading with tutored review by cardiovascular fellow. 5. Observation of invasive and noninvasive cardiac diagnostic techniques (catheterization, angioplasty, exercise testing, echocardiography, etc.).
Summative Student Assessment	<p>Students will be evaluated on the basis of interest and development of evaluation and management skills over the course of the month; and an ability to become a part of the case management team. Qualitative collective cardiac staff assessment will be based upon observation of student performance.</p>
Course Administrator/Coordinator	Allison Walker
Contact Information	allison.walker@uvmhealth.org

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Medicine: MED-2506 - Dermatology	
Prerequisites:	Medicine Clerkships
Restriction days:	120
Keywords:	
Course Objectives:	
Course Description	<p>Goals for this course are:</p> <ol style="list-style-type: none"> 1. Efficient data collection: To learn the appropriate historical information for various dermatologic disorders. 2. Learn how to accurately describe skin lesions: Fine-tune descriptive abilities when examining the skin. 3. Learn the differential diagnosis of common dermatologic problems and have some familiarity with various rare dermatologic disorders. 4. Learn common dermatologic therapies and know the indications for the various vehicles of dermatologic therapy. 5. Learn the proper time for referral to a dermatologist.
Course Objectives	The bulk of the student's time will be spent at the Dermatology Outpatient Clinic on the 3rd (main) floor, in the East Pavilion of the Ambulatory Care Center (ACC EP-3). Ask to see one of our first year residents, who will give you your schedule and other pertinent information.
Summative Student Assessment	<p>Students must sign in daily. 1. Day-to-day evaluation of the student's progress will be made as each patient is discussed.</p> <p>2. Assessment of the student's special topic (lecture at Dermatology Conference).</p> <p>3. The student will be given the opportunity to evaluate this elective at the end of the month. Students will also be given the option to evaluate faculty members they worked with.</p>
First Day Information	Dermatology is available as a FOUR-WEEK rotation ONLY.
Course Director	Joseph C. Pierson, M.D., Director, Residency / Education Programs
Course Administrator/Coordinator	Ellen Dimick, ellen.dimick@uvmhealth.org

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Medicine: MED-2508 - Endocrinology, Diabetes & Metabol	
Prerequisites:	Medicine Clerkships
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	<p>The Endocrinology and Diabetes elective is essential training for all medical students and is especially recommended for medical students considering residency training in primary care (family medicine, ob/gyn, pediatrics and internal medicine), emergency medicine, or surgery.</p> <p>An understanding of diabetes is critical for physicians, since diabetes-related conditions account for 45% of adult primary care office visits, and over 40% of surgical inpatients experience hyperglycemia. But while diabetes receives most of the attention due to its prevalence, other endocrine system-related illnesses also create challenges in patients' lives—and because endocrine emergencies are somewhat uncommon, they can be a diagnostic challenge with delays in diagnosis and treatment resulting in higher mortality rates.</p> <p>During this elective, students will learn to diagnose and treat common endocrine emergencies, including: diabetic ketoacidosis (DKA); hyponatremia and hypernatremia (diabetes insipidus); hypercalcemia (hyperparathyroidism); thyrotoxicosis and myxedema coma; pituitary apoplexy; and adrenal insufficiency. Students may also see patients with acromegaly, Addison's Disease, Paget's Disease of Bone, hirsutism, growth hormone deficiency, and testosterone or estrogen imbalances.</p>
Course Objectives	<p>During the inpatient experience, students encounter and learn to manage the common endocrine emergencies found in hospitalized patients.</p> <p>The goal of the outpatient endocrine clinic experience is for students to learn the standard of care for endocrine disorders, including appropriate testing and treatment options. Students also learn to perform thyroid ultrasounds and how to use insulin delivery and monitoring devices.</p>
Learning Activities	<p>The inpatient experience: Medical students on the endocrine consult service are part of a team that includes a medical resident, an endocrine fellow, and an attending. On daily hospital rounds, students learn:</p> <ul style="list-style-type: none"> • how to diagnose and treat endocrine emergencies; • the inpatient blood glucose goals for medical and surgical patients with stress hyperglycemia after surgery, critical illness, or one of the different types of diabetes (type 1 or type 2 diabetes, gestational diabetes, pancreoprivic diabetes, and diabetes with renal, visual or hepatic complications); and • the most effective medications to correct hyperglycemia; hypoglycemia is also addressed as to etiology and correction. <p>The outpatient experience occurs at 62 Tilley Dr. (a short drive from the hospital—students may ride from the hospital with the attending but return transportation is not provided). Working with an Endocrinology fellow and attending, medical students learn the standards of care for diagnosing and treating endocrine disorders,</p>

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MED-2508 continued. . .	
Learning Activities cont.	<p>including diabetes; learn to interpret pituitary, thyroid, parathyroid and adrenal blood, urine and saliva tests and when to order stimulation testing and imaging; and learn to perform thyroid ultrasound on patients with nodular thyroid disease and observe ultrasound-guided thyroid nodule fine needle aspiration (currently scheduled 3 times monthly).</p> <p>A Diabetes Clinic is held at the Endocrine clinic; students will see patients with each member of the endocrine care team, which includes diabetes educators, dietitians, nurse practitioners, and endocrine fellows, as well as the endocrine attendings. Attention is given to newer medications, cost-effective care, nutrition counseling, and minimizing the long-term complications of diabetes.</p> <p>Medical students may opt to see patients with acquired and hereditary bone diseases in the multi-disciplinary metabolic bone clinic or patients with Cystic Fibrosis Related Diabetes (CFRD) in a monthly clinic—both clinics are held in the ACC Building East Pavilion.</p> <p>Two hour-long teaching conferences are held each week at the Tilley Drive offices. Each Wednesday at noon medical students attend Endocrine Grand Rounds, a conference that rotates among 3 formats: research, case conference, and journal club. Each Thursday at noon, a didactic conference is held with lectures on endocrine pathophysiology.</p> <p>A pathology conference is held one Friday morning per month at the hospital in which thyroid biopsies and surgical pathologies of the previous weeks are reviewed under the microscope with the pathologist.</p> <p>The metabolic bone conference, held Friday at noon, is a lecture series on bone diseases.</p>
Required Readings	<p>The Washington Manual: Endocrinology Subspecialty Consult. 234-page paperback, on reserve to be checked out during the elective at the Dana Library and available at UVM Bookstore. This highly recommended reference fits in your white coat pocket! Field-tested by our residents and fellows.</p> <p>The Primer on Metabolic Bone Diseases. 7th edition. On reserve at the Dana Library.</p>
Summative Student Assessment	The endocrine faculty evaluate student performance using the Advanced Integration Evaluation Form.
First Day Information	Two (2) week electives are also available. Please contact Rebecca Aksdal (Rebecca.Aksdal@med.uvm.edu) for availability.
Course Director	Matthew Gilbert, DO, MPH, Program Director
Course Administrator/Coordinator	Rebecca Aksdal, Rebecca.Aksdal@uvm.edu
Additional Notes	<p>Students are encouraged to visit these websites:</p> <ul style="list-style-type: none"> • The Endocrine Society (www.endocrine.org) • The Hormone Health Network (www.hormone.org) • The American Thyroid Association (www.thyroid.org) • Up To Date

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Medicine: MED-2510 - Clinical Gastroenterology	
Prerequisites:	Medicine Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	Goals are the development of approach to the diagnosis and treatment of a variety of gastrointestinal disorders with emphasis on pathophysiology and pathogenesis of disorders involving esophagus, stomach, small intestine, large intestine, pancreas and liver.
Course Objectives	Students will be expected to work-up patients with a variety of gastrointestinal disorders who are seen in consultation, or who are hospitalized, by members of the Gastroenterology Unit. The clinical experience is broadened in outpatient settings as well. The students will be responsible for a number of patients and will participate in rounds made by the Gastroenterology Service, including an Attending Physician, Fellow in Gastroenterology, and members of the House Staff. Students will observe and may assist in a variety of gastrointestinal procedures including endoscopy and liver biopsy. They will be expected to participate in formal conferences by discussion of selected aspects of the pathogenesis, pathophysiology or clinical course of patients with gastrointestinal disorders
Learning Activities	Students will attend Morning Report as well as Journal Club, Research, QA, and Core Conferences according to schedule.
Formative Student Assessment	Ongoing feedback will be provided to the student from faculty/attendings during the rotation.
Summative Student Assessment	Student evaluation is based on thoroughness, efficiency, reliability, and analytical ability observed throughout the rotation. A written evaluation will be submitted at the end of the rotation.
First Day Information	Begin the 1st Monday of the month, unless 1st Monday is a holiday. If so, begin the 1st available date when everyone returns to work after the holiday.
Course Director	Nicholas Ferrentino, MD
Course Administrator/Coordinator	Suzanne Roberts, Administrator
Contact Information	Suzanne.Roberts@uvmhealth.org

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Medicine: MED-2513 - Outpatient Hematology/Oncology	
Prerequisites:	Medicine Clerkships
Restriction days:	730
Keywords:	
Course Objectives:	
Course Description	<p>This is a 4-week rotation. A schedule will be made for the student showing which physician they will be working with each day/half day and the conferences they should attend.</p> <p>The rotation will generally include:</p> <ul style="list-style-type: none"> - time on Hematology Consults with an attending and a fellow - time on Oncology Consults with an attending and a fellow - time in the Hem/Onc clinic to be exposed to a broad range of Hem/Onc topics such as: <ul style="list-style-type: none"> -Common Cancers, both solid tumors and hematologic malignancies -Supportive Care -Cancer Genetics and Genomics -Oncology Rehab and Survivorship -Benign Hematology, including Thrombosis and Hemostasis <p>If the student has a specific area of interest, let us know and we will try to accommodate and schedule accordingly.</p> <p>During the 4-week rotation the student will do a brief presentation on a topic that is mutually agreed upon in advance. This can be done just to the attending or at a case conference, if desired.</p>
Course Objectives	<p>At the end of this rotation the student will</p> <ul style="list-style-type: none"> - be knowledgeable about a wide variety of issues affecting cancer patients, including diagnostic workups, treatments, course of disease, and survivorship - have gained experience in the evaluation and treatment of patients with primary Hematologic or Oncologic disease. - have gained experience in physical examination and clinical differential diagnosis - be able to describe the natural history and treatment options for common cancers - be able to describe the use of the following in the management of hem-onc disorders: imaging studies, laboratory studies; including blood smears, bone marrow exams, and genetic tests -Become familiar with evaluation and management of thrombosis and bleeding - be familiar with hematologic and oncologic complications of other illnesses in patients seen on the consult services and hospital presentations of cancers - acquire knowledge about genetics and cancer prevention and treatment - be able to recognize the importance of following cancer survivors post treatment - demonstrate professionalism by attending assigned rounds, conferences, and lectures.
Learning Activities	<p>Student will attend:</p> <ul style="list-style-type: none"> - MDC conferences as appropriate depending on the assigned physician - Tumor Boards (list to be provided)

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MED-2513 continued. . .	
Learning Activities cont.	<ul style="list-style-type: none"> - Grand Rounds and Journal Clubs scheduled during the rotation - Case Conference – Wednesdays 8:00 AM – Trainer Conf. Rm -Thrombosis & Hemostasis Program Conference - Wednesday 8:30 AM as appropriate depending on the assigned physician – Trainer Conf. Rm - Hematologic Oncology and Transplant (HOT) Conference- Friday 12-1 PM - Room varies - Familial Cancer Program Conference, 1st and 3rd Wed. 12-1 - Genomic Oncology Conference 2nd Wednesday 12-1 PM - HSRF 300 - Vermont Vascular Medicine Conference -3rd Friday 9:15-10:15 HSRF 200
Required Readings	As suggested by attending physicians.
Summative Student Assessment	Performance will be evaluated using the Advanced Integration Evaluation Form in OASIS with input from physicians worked with during the rotation.
First Day Information	<p>The day starts at 9 AM unless there is a morning conference. Location: Hematology/Oncology clinic, Main Pavilion of the ACC - 2nd floor.</p> <p>Go to the waiting area to the right of the Breast Care Center front desk and page the attending you will be working with the and they will come find you.</p>
Course Director	Marc Greenblatt, MD and Patricia O'Brien, MD
Course Administrator/Coordinator	Chloe Housenger
Contact Information	chloe.porter@uvmhealth.org 802-656-5465
Additional Notes	This course is available in four week blocks and accepts one medical student at a time. Please contact Chloe Housenger to enroll.

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Medicine: MED-2519 - Clinical Nephrology	
Prerequisites:	Medicine Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>Goals for the student are:</p> <ol style="list-style-type: none"> 1. To learn the approach to the evaluation and management of common renal problems including acute kidney injury, fluid, electrolyte, and acid-base disorders, and hypertension. 2. To gain an appreciation for the problems in the long-term care of patients with chronic kidney disease and end-stage renal disease. 3. To learn the role of the consultant.
Course Objectives	<p>Activities:</p> <ol style="list-style-type: none"> 1. Daily teaching Rounds with nephrology attending. 2. Weekly outpatient clinic experience with one of the attendings 3. Twice weekly clinical conferences. 4. Once monthly Pathology Conference. 5. Once monthly journal club (3rd Thursday evening of the month; food provided) 6. Once monthly rounds with Dr. Rimmer at Joy Drive dialysis facility (time TBD) <p>Student Responsibilities:</p> <ol style="list-style-type: none"> 1. Initial evaluation of new consults, review with resident or nephrology fellow, and presentation to nephrology attending. 2. Daily follow-up of consults, with progress notes as indicated. 3. One weekend/month call with attending. 4. Read and report current literature relating to patients. 5. Interview patients and present to attending in the outpatient clinic 6. Preparation of a 15 minute presentation on a specific case seen by the student during the rotation. Template of presentation provided.
Summative Student Assessment	Evaluation will be by the nephrology attending (both inpatient and outpatient) with emphasis on thoroughness, clarity, and analytic skills demonstrated in written work-ups and oral presentations, evidence of independent learning, and care shown to patients.
First Day Information	Week days only, no weekends or holidays.
Course Director	Richard Solomon, MD
Course Administrator/Coordinator	Judy Sullivan, judy.sullivan@vtmednet.org
Additional Notes	There are no weekend rotation hours scheduled.

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Medicine: MED-2525 - Clinical Pulmonary Medicine	
Prerequisites:	Medicine Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>1. The student should know how to evaluate a respiratory disease problem by:</p> <p>a. Eliciting a directed and detailed respiratory disease history.</p> <p>b. Carrying out a detailed respiratory system physical examination.</p> <p>c. Requesting and interpreting appropriate radiologic, physiologic, serologic and other specialized clinical data.</p> <p>2. The student should learn the role of biopsy, bronchoscopy, physiologic tests, and other special studies in the management of lung disease patients.</p> <p>3. The student should become familiar with the location and use of the major published information sources in Pulmonary Medicine.</p>
Course Objectives	The student sees patients in the hospital or ambulatory care unit on whom pulmonary consultation is requested, discusses them with pulmonary fellows and attending staff, and writes a report subject to their review. The student attends Rounds daily on consultation patients and those admitted to pulmonary medicine. The student observes and assists with bronchoscopy, pulmonary function studies, lung biopsies, and other specialized tests. The student will participate in weekly pulmonary medicine conferences.
Summative Student Assessment	<p>The student will be evaluated by:</p> <p>1. Quality of patient data collection, analysis and orderly presentation.</p> <p>2. Extent and depth of independent study and reading.</p> <p>3. Direct observation of bedside skills.</p> <p>4. Organization of time and effort in relation to identified patient care tasks.</p>
Course Administrator/Coordinator	Gwen Landis, gwen.landis@vtmednet.org

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Medicine: MED-2526 - Rheumatology & Clinical Immun	
Prerequisites:	Medicine Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>At the end of the one month rotation the student will be familiar with:</p> <ol style="list-style-type: none"> 1. Musculoskeletal physical exam and data collection. 2. Natural history and treatment of rheumatic disease <ol style="list-style-type: none"> a. Rheumatoid arthritis b. Osteoarthritis c. Systemic lupus erythematosus, scleroderma, and other "collagen-vascular/connective tissue" diseases d. Psoriatic arthritis e. Spondyloarthropathies including ankylosing spondylitis and reactive arthritis f. Crystal-induced arthritis g. Regional disorders of joints and related structures including chronic myofascial pain syndromes 3. Clinical immunology related to the rheumatic diseases 4. Joint aspiration and synovial fluid analysis 5. Interpretation of bone and joint x-rays and bone densitometry
Course Objectives	<p>The student will attend outpatient clinics, in-patient consultation rounds if requested, department of medicine conferences, rheumatology division conferences, and lectures during the rotation. Attending supervision will be provided by the full-time faculty and fellows.</p> <p>Students will read the Primer on the Rheumatic Diseases and those chapters in the standard rheumatology texts (McCarty and/or Kelley; Hoppenfeld for physical exam) relevant to their patient experiences. In-depth journal review and report of selected, pertinent topics will be part of the training experience. Students may also review the teaching slide collection, stored PowerPoint lectures and/or taped lectures. Each student will be expected to make a 30 minute presentation toward the end of their rotation on a rheumatologic topic of his or her choice.</p>
Learning Activities	Student will be expected to make a 30 minute presentation toward the end of their rotation on a rheumatologic topic of his/her choice.
Required Readings	Student will read the Primer on the Rheumatic Diseases and those chapters in the standard rheumatology texts (McCarty and/or Kelley; Hoppenfeld for physical exam) relevant to their patient experiences.
Formative Student Assessment	On-going assessments by Rheumatology Attending(s) student is working with.
Summative Student Assessment	Assessment will be based on history and data collection, physical exam skills, analysis, differential diagnosis and quality of the didactic presentation. The extent of independent study and reading will be evaluated.
Course Director	Bonita Libman, MD

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MED-2526 continued. . .	
Course Administrator/Coordinator	Brenda Mullen, Brenda.Mullen@uvmhealth.org, 802-847-5146.
Contact Information	Contact Brenda Mullen via Email 2 weeks prior to start date (brenda.mullen@uvmhealth.org).

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Neurology: NEUR-3501 - AI: Neurology	
Prerequisites:	Neurology Clerkship
Restriction days:	365
Keywords:	
Course Objectives:	
Course Description	To expand on examination and localization skills learned in the Neurology Clerkship. Students will learn about the clinical approach to common inpatient neurological disorders, develop the clinical neurological skills to manage patients with stroke, epilepsy, neuromuscular disorders, as well as general neurology, and develop diagnostic expertise in neuroimaging.
Course Objectives	<p>The rotation includes inpatient care of neurology patients with a variety of neurological disorders. Also required is daily attendance at ward and consultation rounds. The student is an acting intern and participates in night call. There is continuous supervision by the neurology residents and by attending teaching faculty who round daily. Attendance is required at a weekly brain cutting session (neuropathology), neurosciences (neurology and neurosurgery) Grand Rounds, neuroradiology rounds, and neuroscience conferences for the residents. In selective instances, outpatient experience in the clinics may be built into the rotation.</p> <p>The student will be asked to present a clinical topic in Neurology of about 40-45 minutes in duration. The topic of this talk should be approved by Dr. Fries prior to the presentation. A literature review should support the discussion.</p> <p>The student will participate in an informed oral examination on neurological emergencies.</p>
Summative Student Assessment	<p>The ward service attending will meet with each student individually after two weeks for a preliminary evaluation and a final review will be given at the conclusion of the rotation. Dr. Fries will also meet with the student at the beginning of the rotation. The student's grade will be based on three components: 1. Clinical feed-back from residents and attendings 2. The student's presentation 3. The oral examination with Dr. Fries.</p> <p>Passing: The student must meet the basic competencies of the AI as they relate to knowledge, patient care, practice-based learning, interpersonal skills, professionalism and system-based practice.</p> <p>Honors: The student must excel in their knowledge and skills related to clinical neurology based on clinical observations, presentations and their oral exam.</p>
First Day Information	Due to the somewhat limited availability for this inpatient AI rotation, in selecting students for this rotation, we will give priority to those pursuing careers in neurology, psychiatry, rehabilitation medicine, neurosurgery, and ophthalmology.
Course Director	Timothy Fries, MD
Course Administrator/Coordinator	Jennifer Provencher, Neurology Clerkship Education Coordinator
Contact Information	Jennifer.Provencher@uvm.edu

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NEUR-3501 continued. . .	
Contact Information cont.	802-656-4675
Additional Notes	<p>IMPORTANT NOTE: This course will not be available for the months of July and December. Students may select this course through the lottery and one slot is available each month. Additional students may sign up under the waitlist for a second slot; however until availability is confirmed by the course director and coordinator, the second student is not actually enrolled in the course. Students may sign up under the waitlist for this course; however until approval has been granted by leadership listed in the description of the course and availability confirmed by the coordinator, the student is not actually enrolled in the course. Students may contact Jennifer Provencher via email, Jennifer.Provencher@uvm.edu, or telephone (802) 656-4675 with questions about this process.</p>

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Neurology: NEUR-3504 - Pediatric Neurology	
Prerequisites:	Neurology Clerkship
Restriction days:	365
Keywords:	
Course Objectives:	
Course Description	<p>The principles and skills underlying the recognition and management of neurologic diseases that a general medical practitioner is most likely to encounter in practice will be taught. Informal lectures and discussions will introduce the range of neurologic diseases of infants and children, including developmental delay, learning problems, autism, epilepsy, headache, and neurogenetic diseases. The student will gain experience with interview and examination techniques for children with neurologic conditions, and will learn how to perform a comprehensive neurological exam on an infant. At various points during the clerkship, the student will be observed obtaining a history and performing the neurological exam on a patient.</p> <p>The elective is designed to allow students to focus on an area within pediatric neurology that is of particular interest to them. It also affords the opportunity to hone history-taking skills, speaking skills, to do a critical review of the literature and to become more proficient in using informatics and the literature. The student will make at least one oral presentation which is expected to be 20-40 minutes in length. Format of the project could consist of one of the following:</p> <p>Case presentation. This may be a case that you have encountered during the rotation, during another rotation or it may be a case seen by another student or resident. Cite relevant references in discussing case. If relevant, present visual documentation such as video footage of the exam, MRI scans, EEG tracing, pathology slides, etc.</p> <p>Literature review of a topic. The topic will generally be a disease entity or a clinical presentation but it could also be a test abnormality (e.g. causes of basal ganglia calcification).</p> <p>Clinical Algorithm. In this format a diagnostic or therapeutic algorithm will be devised. Consideration should be given to the cost and risks of all intervention points in the decision tree.</p>
Course Objectives	<p>The elective in Pediatric Neurology will be a mixed inpatient and outpatient experience of 4 weeks. Students will spend time participating in clinics, inpatient consultation, and projects/electives. Students will observe/participate in morning rounds and clinics. Elective/project time will be spent on a subject mutually selected by the student and faculty preceptor. The elective and project time is expected to culminate in either a written or an oral presentation by the student.</p> <p>Outpatient Clinic: Will include general child neurology cases. The student will work up and present one new patient every 1/2 day clinic. The students will observe other patients and will be graded on questions that they present during the clinic.</p> <p>Independent: 1. Work on a project due at the end of the rotation in the form of a written or oral report. The project should typically consist of a literature review of a topic depending on the student's interests, but other formats could be considered and developed in conjunction with the preceptor. 2. Reading on cases seen in out- or in-patient settings.</p>

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NEUR-3504 continued. . .	
Summative Student Assessment	The students will be evaluated based on: 1. Clinical performance as judged by the faculty preceptor as well as input from residents and fellows; emphasis will be placed on the ability to interview children and parents and on the ability to deliver a clear, concise and thorough oral presentation of a patient's history and examination, 2. The quality of their project/presentation, and 3. Questions during lectures and clinical experiences.
Course Director	Peter Bingham, MD
Course Administrator/Coordinator	Jennifer Provencher, Neurology Clerkship Education Coordinator
Contact Information	Jennifer.Provencher@uvm.edu 802-656-4675
Additional Notes	IMPORTANT NOTE: This course will not be available during the month of December.

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Obstetrics and Gynecology: OBGY-4110 - Global Women's Health (Part 1)	
Prerequisites:	OB/GYN Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>PLEASE NOTE: This course requires at least 3 students be enrolled per rotation in order for it run.</p> <p>Complications related to reproductive health are the leading cause of death worldwide for women especially those of childbearing age (15-44 years). Globally, eight hundred maternal deaths occur each day. Ninety nine percent of these deaths occur in the developing world. What contributes to the vast difference between rates of maternal mortality in global north versus global south countries is complex. This course will provide a broad introduction into major reproductive health topics such as gender based violence, family planning, preventative women's health care and pregnancy and perinatal issues. Consideration will be given to both international and refugee populations. In viewing this complicated landscape, Global Women's Health: Part 1, uses an epidemiologic lens as well as the personal view of affected women as relayed in memoirs or documentary films. In this way, the women themselves are allowed to tell the story behind the numbers.</p> <p>The overarching curricular goals are to give trainees (1) a broad sense of what is meant by "global health" and "global women's health," (2) an appreciation that skills relevant to global women's health are necessary in developed world settings when caring for refugee women and other underserved groups, (3) an enhanced understanding of professionalism and cultural competence in approaching cross-cultural encounters, and (4) an appreciation of the idea of "capacity-building" in global health ventures, that is, making a contribution to your host institution that leaves them better than when you arrived.</p> <p>Global Women's Health: Part 1 will provide students with the requisite background knowledge to pursue field experience in global women's health. The course will be based in Burlington with an emphasis on self-study and self-reflection. Face to face meetings will occur on a weekly basis. An opportunity for international work is available on a case by case basis as part of Global Women's Health: Part 2. Concurrent Part 1 and 2 courses will be considered on an ongoing basis.</p>
Course Objectives	<p>Objectives by ACGME Core Competencies</p> <p>Patient care Describe the purpose of prenatal care in developing world settings. Discuss the benefit of skilled attendance at childbirth as well as the barriers to this need in a low resource setting. Explain the need for family planning as well as the challenges to its implementation in the developing world Discuss the special needs of a refugee or "New American" woman as they pertain to reproductive health Describe barriers to preventative health care particularly with respect to cervical cancer screening</p> <p>Medical Knowledge</p>

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OBGY-4110 continued. . .	
Course Objectives cont.	<p>Describe the major causes of maternal morbidity and mortality in low resource areas</p> <p>Describe the association between gender based violence and HIV transmission and status</p> <p>Explain the pathophysiology and psychosocial components of the “obstructed labor injury complex”</p> <p>List the mechanism of action of various contraceptive methods and evaluate their applicability in a low resource setting</p> <p>Practice-Based Learning and Improvement</p> <p>Compare and contrast the practice and culture of medicine in the US with a developing world setting</p> <p>Identify five limitations to women’s health care in a developing world setting</p> <p>Interpersonal and Communication Skills</p> <p>Examine tenets of Western medical ethics in the context of cross cultural medicine.</p> <p>Describe the concept of ethical relativism with respect to cross cultural medicine</p> <p>Evaluate a clinical scenario in which you used a translator. Describe associated challenges</p> <p>Professionalism</p> <p>Recognize the importance of self-reflection in understanding women’s health care from a global perspective</p> <p>Systems-Based Practice</p> <p>Name specific health care resources that are scarce in a developing world setting</p> <p>Describe different modes of health care delivery in low resource settings. Evaluate the pros and cons of each.</p>
Learning Activities	<p>Assignments for students</p> <ol style="list-style-type: none"> 1) Weekly readings and films 2) Completion of “Learners in Low Resource Areas” online learning modules from Association of Professors of Gynecology and Obstetrics (APGO) 3) Weekly reflection paper (due the evening prior to discussion section) 4) Organization of weekly discussion section for one week of the course 5) Participation in weekly group discussion (60 mins per week) - typically these meetings occur on Thursday afternoons. You can arrange to Skype into the meeting if you are not on the UVM campus. 6) 15 min presentation to group on topic of choice (Topic to be approved by course director at least 1 week in advance. 7) Self evaluation, course evaluation
Required Readings	<p>Week 1</p> <p>* APGO Online “Clinical Care in Low Resource Settings: preparing providers and fostering leaders” modules: Module 1: Introduction. Available at: https://www.apgo.org/grants-awards/apgo-medical-education-endowment-fund-grant-pro</p> <p>* Bhutta Z, Black R. Global Maternal, Newborn, and Child Health — So Near and Yet So Far. N Engl J Med 2013;369:2226-35</p> <p>* APGO Online “Clinical Care in Low Resource Settings: preparing providers and fostering leaders” modules: Module 2, Section 3: Family Planning. Available at: https://www.apgo.org/grants-awards/apgo-medical-education-endowment-fund-grant-pro</p> <p>* Review Knowledge for Health web page on adolescent pregnancy.</p>

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OBGY-4110 continued. . .	
Required Readings cont.	<p>* Recommended: Click on “Take a course” >>> Global Health eLearning Center: Take course called: Adolescent pregnancy module Must register first. Takes approximately 3hrs to complete.</p> <p>* Prata N. Making family planning accessible in resource-poor settings. <i>Philos Trans R Soc Lond B Biol Sci.</i> Oct 27, 2009; 364(1532): 3093–3099.</p> <p>Week 2</p> <p>* Half the Sky – the film, available from Bailey Howe Library at UVM.</p> <p>* Garcia-Moreno, C, Jansen, HAFM, Ellsberg, M, Heise, L, Watts, CH, and on behalf of the WHO Multi-country Study on Women's Health and Domestic Violence against Women Study Team. Prevalence of intimate partner violence: findings from the WHO multi-country study on women's health and domestic violence. <i>Lancet.</i> 2006; 368: 1260–1269</p> <p>* Kouyoumdjian, FG, Findlay, N, Schwandt, M, and Calzavara, LM. A systematic review of the relationships between intimate partner violence and HIV/AIDS. <i>PLoS One.</i> 2013; 8: 11</p> <p>* Abramsky, T, Devries, K, Kiss, L et al. Findings from the SASA! Study: a cluster randomized controlled trial to assess the impact of a community mobilization intervention to prevent violence against women and reduce HIV risk in Kampala, Uganda. <i>BMC Med.</i> 2014; 12: 122</p> <p>* Wagman, Jennifer A et al. Effectiveness of an integrated intimate partner violence and HIV prevention intervention in Rakai, Uganda: analysis of an intervention in an existing cluster randomised cohort. <i>Lancet Global Health</i> , 2013, 3(1): e23 - e33</p> <p>* Female genital cutting fact sheet. access at: http://womenshealth.gov/publications/our-publications/fact-sheet/female-genital-cutting.p</p> <p>Week 3</p> <p>* Walk to Beautiful film</p> <p>* APGO Online “Clinical Care in Low Resource Settings: preparing providers and fostering leaders” modules: Module 2, Section 4: Obstetric fistula. Available at: https://www.apgo.org/component/content/article/863-clinical-care-in-low-resource-setting</p> <p>* Arrowsmith S. Obstructed Labor Injury Complex: Obstetric Fistula Formation and the Multifaceted Morbidity of Maternal Birth Trauma in the Developing World. <i>Obstet Gyn Sur</i>, 1996,51(9): 568-74.</p> <p>* Thaddeus S, Maine D. Too far to walk: Maternal mortality in context <i>Social Science & Medicine</i>, 38(8): 1091-1110</p> <p>* Lalonde A. Prevention and treatment of postpartum hemorrhage in low-resource settings. <i>Int J Obstet Gyn</i>, 2012, 117(2):108-118.</p> <p>* Danso K, Opore-Addo H. Challenges associated with hypertensive disease during pregnancy in low-income countries. <i>Int J Obstet Gyn</i>, 2010, 110(1): 78-81</p> <p>* Duley L. The Global Impact of Pre-eclampsia and Eclampsia. <i>Seminars in Perinatology</i>, 2009, 33(3): 130-137.</p> <p>Week 4</p> <p>* APGO Online “Clinical Care in Low Resource Settings: preparing providers and fostering leaders” modules: Module 4: Refugee and Immigrant Health. Available at: https://www.apgo.org/component/content/article/863-clinical-care-in-low-resource-setting</p> <p>* Adanu R, Johnson T. Migration and women's health. <i>Int J Obstet Gyn</i>, 2009, 106(2):179-181.</p> <p>* Berman H, Girón E, Marroquín A .A narrative study of refugee women who have experienced violence in the context of war. <i>Can J Nurs Res.</i> 2006 Dec;38(4):32-53.</p> <p>Fighting HPV in Bhutan. Video clip from Nova. Available from:</p>

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OBGY-4110 continued. . .	
Required Readings cont. cont.	<p>http://www.pbs.org/wgbh/nova/body/fighting-hpv-in-bhutan.html</p> <ul style="list-style-type: none"> * APGO Online “Clinical Care in Low Resource Settings: preparing providers and fostering leaders” modules: Module 2, Section 2: Cervical cancer and dysplasia. Available at: https://www.apgo.org/component/content/article/863-clinical-care-in-low-resource-setting * Denny L. Cervical cancer prevention: new opportunities for primary and secondary prevention in the 21st century. <i>Int J Gyn Obstet.</i> 2012 119: S80-84. * Sankaranarayanan R et al. Infrastructure requirements for human papillomavirus vaccination and cervical cancer screening in subSaharan Africa. <i>Vaccine.</i> 2013 Dec 29;31 Suppl 5:F47-52. * Wigle J, Coast E, Watson-Jones D. Human papillomavirus (HPV) vaccine implementation in low and middle-income countries (LMICs): health system experiences and prospects. <i>Vaccine.</i> 2013 Aug 20;31(37):3811-7. <p>I recommend completing the entire APGO Online “Clinical Care in Low Resource Settings: preparing providers and fostering leaders” modules. They are well done and comprehensive.</p>
Formative Student Assessment	Student will be given "on the fly" feedback throughout the course. Through interaction during discussion sections and comments on weekly reflection papers, the student will be able to gauge his or her progress in the course.
Summative Student Assessment	<p>Grading</p> <ul style="list-style-type: none"> * Grade is on an honors/pass/fail basis. * In order to gain honors, students must successfully complete all assignments in a timely fashion, actively participate in group discussions and present a well-researched, coherent final presentation. * Evaluation for course * Multiple choice, yes/no and free text survey available online
First Day Information	<p>Weekly meeting typically takes place on Thursday afternoons</p> <p>Syllabus</p> <p>Week 1:</p> <ul style="list-style-type: none"> A: Introduction to global women’s health B: Family planning challenges <p>Week 2: Gender-based violence</p> <p>Half the Sky – the film</p> <p>Female genital cutting fact sheet.</p> <p>Week 3: Perinatal concerns</p> <p>Walk to Beautiful film</p> <p>Week 4: Last session is 90 minutes to accommodate student presentations</p> <ul style="list-style-type: none"> A: Refugee Health care B: Preventative Health care: cervical cancer as a case study C: Student Presentations <p>15 minutes per student.</p>
Course Director	Anne Dougherty, MD
Course Administrator/Coordinator	<p>Sara Tourville</p> <p>89 Beaumont Avenue, Given D201A</p> <p>Burlington, VT 05405</p> <p>sara.tourville@uvm.edu</p> <p>656-1201</p>

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OBGY-4110 continued. . .	
Additional Notes	There must be a minimum of 3 students enrolled per rotation for this course to run.

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Obstetrics and Gynecology: OBGY-4503 - AI: Gen.Obstetrics-Night Float	
Prerequisites:	OB/GYN Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	The acting internship (AI) in night float obstetrics is designed to give the student responsibility in the evaluation and management of obstetrical patients that present on labor and delivery. This is accomplished by primarily managing patients on labor and delivery in close relationship with the residents, fellows and attending physicians.
Course Objectives	At the end of the rotation, the A.I. will be experienced in the following: 1.Cervical exams, sterile speculum exams, placement of intrauterine pressure catheters and fetal scalp electrodes 2.NST interpretation 3.Initial labor and delivery work up and management 4.Vaginal delivery 5.Suturing vaginal obstetric lacerations 6.Ultrasound for fetal presentation 7.Assisting in cesarean deliveries and complicated vaginal deliveries
Learning Activities	Morbidity and Mortality conference on Tuesday mornings from 7:00-7:30am Applicable Obstetrical Grand Rounds on Tuesday mornings from 7:30-8:30am Friday Morning OB teaching rounds 7:30-8:30am
Required Readings	Week 1: Fetal Heart Rate Monitoring Nomenclature and Interpretation, ACOG 2009 ACOG Practice Bulletin 106 Week 2: Falling off the labor curve (2 papers) Zhang 2002 Reassessing the Labor Curve Zhang 2010 The Natural History of Normal First Stage of Labor Week 3: Induction of Labor ACOG Practice Bulletin 107 Week 4: How to Manage? (2 papers) Labor in 2013: The New Frontier Safe Prevention of the Primary Cesarean Delivery Obstetric Care Consensus March 2014
Formative Student Assessment	Student feedback and performance will be done actively after and during all procedures and presentations done involving patient care and interactions on Labor and Delivery. Students will be treated as an integral part of the obstetrical night team.
Summative Student Assessment	Students are assessed through faculty observation. A standard evaluation form is completed by the Course Director at the end of the rotation.
First Day Information	Sunday - Thursday nights PM signouts are at 6pm AM signouts are at 7am

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OBGY-4503 continued. . .	
Course Director	Wendy Conway, MD
Course Administrator/Coordinator	Sara Tourville sara.tourville@uvm.edu (802) 656-1201
Contact Information	See Course Administrator/Coordinator

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Obstetrics and Gynecology: OBGY-4504 - AI: Gynecologic Oncology	
Prerequisites:	OB/GYN Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	The Acting Intern (AI) in Gynecologic Oncology (GYN ONC) is designed to give the student responsibility for managing complex benign and oncology patients in the operating room, the inpatient setting, and in the clinic. This is accomplished by a very close working relationship with the Gynecologic Oncology residents, PA, and faculty. The student will balance their time between the operating room and the inpatient and outpatient settings to obtain a well-rounded educational experience and to provide continuity of care for oncology patients.
Course Objectives	<p>Inpatient Unit</p> <ol style="list-style-type: none"> 1. Manage postoperative patients following major gynecologic surgery. 2. Manage patients admitted for surgical complications, chemotherapy complications. 3. Manage consults, ER admits, hospital transfers for common gynecologic oncology conditions, i.e. postmenopausal bleeding, pelvic mass. <p>Clinic</p> <ol style="list-style-type: none"> 1. Demonstrate the ability to take a comprehensive Ob/Gyn history relevant to the chief complaint. 2. Demonstrate the ability to perform a competent breast and pelvic exam. 3. Evaluate a patient with gynecologic oncology complaint (PMB, pelvic mass) and formulate a differential diagnosis and a treatment plan. <p>Note: Students must notify Megan Sedlak by Thursday the week prior to clinic on which days they will be in clinic the next week so that Megan can adjust the clinic schedule for the third year students and avoid overlap</p> <p>Operating Room</p> <p>After completion of the Gyn Onc AI, students should be able to do the following:</p> <ol style="list-style-type: none"> 1. Understand indications for surgery, steps of the surgical procedure, pertinent anatomy, and other potential treatment options. 2. Position, prep, drape a patient for surgery 3. Place/remove a foley, a drain, bandage, and staples 4. Perform a pelvic exam under anesthesia 5. Perform all or most of the steps to place the Koh ring and Rumi uterine manipulator during a robotic or laparoscopic hysterectomy 6. Make a skin incision 7. Place a laparoscopic port 8. Dock and undock the robot 9. Place and remove robotic instruments 10. Assist during a laparoscopic/robotic surgery (suctioning, washings, bringing in and retrieving suture) 11. Close a skin incision 12. Write a brief operative note, performing a postop-check and writing a postop-check note, performing and writing a postop SOAP

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OBGY-4504 continued. . .	
Course Objectives cont.	<p>note, writing a discharge summary</p> <p>13. Performing a complete H and P on a new admission, ER transfer, consult, or clinic patient.</p> <p>14. Performing a pre-chemotherapy, post-op, and cancer surveillance visit in clinic</p> <p>Teaching</p> <p>1. Teach junior medical students at any and all opportunities</p> <p>2. Teaching by residents, the PA, and faculty to the AI will occur on rounds, the OR, the clinic, and during structured teaching sessions, M and M, Grand Rounds, and Tumor Board.</p>
Learning Activities	<ol style="list-style-type: none"> 1. Inpatient Rounds 2. Gyn Oncology surgical cases 3. Gyn Oncology clinics 4. Tumor Board 5. M and M 6. Grand Rounds 7. Gynecologic Oncology Teaching Rounds
Required Readings	<p>The book that most students have found the most useful is in the Dana Library on file. It fits in a white coat pocket. It is <i>The Handbook for Principles and Practice of Gynecologic Oncology</i> by Douglas A Levine MD, Jennifer F De Los Santos MD , Gini F Fleming MD , Richard R Barakat MD , Maurie Markman MD, Marcus E Randall MD</p> <p>Other resources:</p> <ol style="list-style-type: none"> 1. Barakat's Gynecologic Oncology for more in depth info – Can be too complex for students, but helpful nonetheless 2. Katz's Comprehensive Gynecology – Students have online access to it and the Gyn Onc chapters are a little more student friendly than Barakat 3. The COMET website – You should ask Sara Tourville to access to the third year clerkship COMET site. It has TONS of helpful info on it, ppt lectures on endometrial cancer, ovarian cancer, vulvar cancer, and GTD, a suture module, etc. 4. A basic surgery textbook – To aid in learning about basic fluid management and routine postop care. <p>In addition to these basic textbook resources students will be encouraged to research the primary literature to provide data to support your decision making. Some helpful ways to access some of these key sentinel articles is to use Up To Date and look at the references to primary articles. Another way is to use the binder in Dr. Everett's office that has most of the primary articles printed and lumped by cancer. And of course, PubMed.</p>
Formative Student Assessment	<p>Formative assessment and feedback will be given to the student by oncology faculty who they work with on a daily basis and after 1 week for a 2 week rotation and 2 weeks for a 4 week rotation during a formal mid-rotation feedback session. You should be receiving immediate feedback on a daily basis from those you work with. If not, then please ask for feedback regularly. One or two weeks into your rotation, depending on the rotation length, it is YOUR responsibility to set up a meeting with Dr. Everett for mid-rotation feedback to identify strengths, areas for improvement, and develop an action plan. This will also be a time to review your progress on your scholarly project.</p>

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OBGY-4504 continued. . .	
Summative Student Assessment	<p>The summative evaluation and grade (Pass/Fail) will be completed by Dr. Elise Everett and informed by the formative faculty evaluations. Evaluations will be done at the end of the rotation by Dr. Wong, Dr. Everett, Dr. Cantillo, the PA, Stephanie Stahl, and the chief resident on service. Dr. Everett will then use these evaluations to compile a final grade.</p> <p>The summative evaluation and final grade, Honors/Pass/Fail, will be posted within 6 weeks of completing the course. In order for a student to receive Honors in this course they must do a scholarly project arranged with and approved by the Course Director. Completing a project does not guarantee an honors grade.</p>
First Day Information	<p>The student should make contact with Sara Tourville the week prior to starting the course. Sara will give the student an orientation packet with details about course structure and requirements. Sara will direct the student to the Gyn Oncology chief resident who will tell the student when and where to meet on the first day and provide some additional orientation.</p>
Course Director	Elise Everett, MD
Course Administrator/Coordinator	<p>Sara Tourville Given D201A sara.tourville@uvm.edu (802) 656-1201</p>
Additional Notes	<ol style="list-style-type: none"> 1. To be eligible for an HONORS grade you must complete a scholarly project. 2. You should talk with Dr. Everett during week 1 to identify a project. 3. You should discuss project progress at mid-rotation feedback. 4. You should arrange to present project during last week of rotation.

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Obstetrics and Gynecology: OBGY-4505 - Reproductive Endocrinology	
Prerequisites:	OB/GYN Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>The REI rotation is designed to give the student responsibility for inpatient and outpatient reproductive endocrinology as well as male and female infertility patients. This is accomplished by a very close working relationship with the REI fellows and attendings. The student will focus the outpatient experience in the 4th Floor Ambulatory Care Center (ACC) where they will attend fellow and attending clinics. The student will also balance their time between the operating room, sonography, HSGs, IVF and lab settings to obtain a well-rounded educational experience.</p> <p>The REI service consists of faculty and fellows, with varying resident participation. Scheduled patients are seen by fellows and attendings in the ACC 4th floor clinic in a typical template. In addition to this, patients are seen early each morning for ultrasounds for evaluation of ovarian follicles during ovulation induction or IVF cycles. Intrauterine inseminations are performed in the mid mornings each day. IVF procedures are performed during mornings in scheduled weeks. Gynecologic and first trimester ultrasounds are performed along with saline sonograms and EMBs in the ultrasound clinics.</p>
Course Objectives	<p>Four half days weekly will be devoted entirely to evaluation of new and follow-up patients on the Reproductive Endocrinology & Infertility service. Approximately two new outpatient evaluations per week will be included in this experience. Patients seen would include those being followed for infertility of a variety of causes such as amenorrhea, menstrual disorders, recurrent abortions, and abnormalities of sexual development as well as a range of endocrinologic disorders not related to infertility. One or two half days will be devoted to the ultrasound clinic.</p> <p>The student will attend all surgeries and should prepare ahead of time to know the patient's history, indications for surgery, steps of the surgical procedure, pertinent anatomy, and other potential treatment options. Please meet the patient in preop, access appropriate imaging in the OR and write a brief OP note. The student will help prep, position and drape patients, and scrub into most cases, gaining hands on practice.</p> <p>The schedule allows generous free time during which the student will be required to develop a short presentation of his/her own related to a relevant area of a particular interest.</p>
Learning Activities	<p>ASRM resident education online modules will be made available to the student to review and discuss with the fellows and attendings. Most education will be case-based and center on the patients seen in clinic and the OR.</p> <p>However, the following basic topics will be covered and discussed</p> <ul style="list-style-type: none"> • Workup of the infertile couple • Hyperprolactinemia • Basic embryology (this will be ultrasound oriented, with first trimester ultrasounds)

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OBGY-4505 continued. . .	
Learning Activities cont.	<ul style="list-style-type: none"> • Laboratory services in REI • Endometriosis • Fertility preservation • Menopause/climacteric • PCOS <p>Other topics will also be covered as patients present. There is also the option of student led topics driven by a student's personal interests.</p> <p>Skill Checklist</p> <p>At the end of the rotation, the AI will be experienced in the following:</p> <ol style="list-style-type: none"> 1. Positioning and prepping patient for surgery 2. Placing/removing a Foley 3. Performing a pelvic exam under anesthesia 4. Placing a laparoscopic port 5. Closing a skin incision 6. Writing a brief operative note, performing a postop-check and writing a postop-check note, performing and writing a postop SOAP note, writing a discharge summary 7. Evaluate a couple and write an H&P at a new infertility visit 8. Perform a semen analysis, do a sperm prep 9. Evaluate a patient for hyperprolactinemia and galactorrhea 10. Counsel a patient about fertility preservation 11. Understand cryopreservation and vitrification methods 12. Participate in an IVF intake visit 13. Evaluate and workup an amenorrhea or oligomenorrhea patient 14. Evaluate and work up a pelvic pain dysmenorrhea patient
Required Readings	Will be determined with the student early in the rotation, based on their personal interests.
Formative Student Assessment	<p>Students will receive formative evaluations regularly with each faculty and fellow they work with.</p> <p>There will be a mid-rotation discussion with the course director in which feedback will be delivered.</p> <p>Students that wish to pursue Honors will need to select a scholarly project to complete during the rotation.</p>
Summative Student Assessment	Students are assessed through faculty observation. A standard evaluation form is completed by the Course Director at the end of the rotation.
First Day Information	Report to the 4th Floor ACC at 8 am in Gyn sonography unless it is an OR day.
Course Director	Elizabeth McGee, MD
Course Administrator/Coordinator	Sara Tourville sara.tourville@uvm.edu (802) 656-1201

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Obstetrics and Gynecology: OBGY-4506 - AI: Maternal-Fetal Medicine	
Prerequisites:	OB/GYN Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>The goals of this course are:</p> <ol style="list-style-type: none"> 1. To familiarize the student with the normal physiologic changes that occur during pregnancy. 2. To allow the student to gain experience in the management of high risk maternal medical and obstetric conditions. 3. To achieve an in-depth understanding of pathophysiology, diagnosis and treatment options for preterm premature rupture of membranes (PPROM), preterm labor and hypertensive disorders in pregnancy.
Course Objectives	<p>Students will be expected to participate in the management of hospitalized patients and maternal-fetal transports to the University of Vermont Medical Center. They will participate in interpretation of obstetrical ultrasound and fetal non-stress tests. Students will have ongoing responsibility for selected hospitalized patients and will have labor management responsibilities for selected patients. The student is expected to attend and participate in the weekly Maternal Fetal Medicine conferences as well as the weekly combined OB/neonatology conference. There will be night call responsibility for MFM patients in labor one night per week.</p>
Learning Activities	<p>All teaching and clinical activities can be found in the course document, which you will receive prior to the start of your rotation. If you do not receive any information, please contact the course administrator/coordinator.</p>
Required Readings	Included in Course Information document
Formative Student Assessment	<p>Students will be expected to give (3) weekly oral case presentations with the MFM attending on the pathophysiology, diagnosis and management of (1) PPRM, (2) preterm labor and (3) hypertensive disorders of pregnancy. Students will meet with the course director midway through the rotation to receive formal mid-rotation feedback.</p>
Summative Student Assessment	<p>The student will be evaluated according to the 6 core clinical competencies established by the ACGME. All resident and attending physicians who work with the student will be solicited to contribute to the summative assessment.</p>
First Day Information	<p>This information is emailed to you prior to the start of your rotation. If you do not receive any information, please contact the course administrator/coordinator.</p>
Course Director	<p>Erin Morris, MD Assistant Professor, Maternal Fetal Medicine (802) 847-0408 erin.morris@uvmhealth.org</p>

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OBGY-4506 continued. . .	
Course Administrator/Coordinator	Sara Tourville sara.tourville@uvm.edu (802) 656-1201
Contact Information	See Course Administrator/Coordinator

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Obstetrics and Gynecology: OBGY-4515 - NNE Regional OB/GYN Resident Readiness	
Prerequisites:	OB/GYN Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	This is a 2 week course available to medical students matching in Ob/Gyn or Family Medicine from 4 medical schools, the University of Vermont Larner College of Medicine, Tufts University School of Medicine, Alpert Medical School of Brown University and UMass Medical School. Course objectives are based on the Council on Resident Education in Obstetrics and Gynecology (CREOG) Milestone One, Level One competencies, and the Core Entrustable Professional Activities (CEPAs) of the AAMC. During this 2 week course, students will participate in a 20 hour Professionalism, Communication, and Reflection curriculum. They will participate in a 30 hour curriculum given in multiple active learning formats (case-based learning, problem-based learning, and team-based learning) that addresses the basic core knowledge in the field of Obstetrics and Gynecology. Lastly, students will participate in a 30 hour simulation curriculum focused on ob/gyn skills and procedures.
Course Objectives	<ol style="list-style-type: none"> 1. To improve student medical knowledge in the core topics of Ob/Gyn as defined by Milestone One. 2. To improve student confidence in their medical knowledge in the core topics of Ob/Gyn as defined by Milestone 1. 3. To improve student skills in common Ob/Gyn skills and procedures. 4. To improve student confidence in common Ob/Gyn skills and procedures. 5. To improve student behaviors in common ObGyn clinical scenarios such as giving bad news. 6. To improve student confidence in certain behaviors commonly used in ObGyn clinical scenarios such as giving bad news. <p>Course Outcomes</p> <ol style="list-style-type: none"> 1. To demonstrate that all students completing the course meet the Milestone One, Level One competencies. 2. To demonstrate that all students completing the course are competent in the CEPAs. 3. To have all students complete the APGO Preparation for Residency Knowledge Assessment Tool with a passing score of 70, demonstrating competence in medical knowledge.
Learning Activities	<ol style="list-style-type: none"> 1. Professionalism, Communication, Reflection curriculum 2. Medical Knowledge Curriculum with active learning 3. Simulation Curriculum
Required Readings	Each session has accompanying reading assignments available on the website. To get the most out of the curriculum and to maximize learning, students should read ahead of time and come prepared to all sessions.

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OBGY-4515 continued. . .	
Formative Student Assessment	Students will do the APGO Preparation for Residency Knowledge Assessment Tool pre and post the 2 week curriculum to provide them with information about their level of medical knowledge. Students will receive formative feedback from their peers, faculty, and standardized patients on an ongoing and daily basis. Many of the sessions will have formative assessments done by observing faculty or standardized patients and these will be given to students for self-improvement.
Summative Student Assessment	Students will be required to participate in all didactic and skills session. The course evaluation used is the LCOM AI/Clinical evaluation or a similar evaluation provided by students from visiting institutions. Grading is pass/fail. A grade of pass will be awarded to students who complete all the requirements.
First Day Information	Sara Tourville will be in touch with students approximately 6 weeks, 4 weeks, and 2 weeks prior to the start of the course to make sure students are aware of the Kickoff potluck the Sunday night prior to the start of the course, to make sure students have made appropriate travel arrangements, to make sure students all have housing, and to provide students with directions on where to go and what time to arrive on the first day of the course.
Course Director	Elise Everett, MD
Course Administrator/Coordinator	Sara Tourville Given D201A sara.tourville@uvm.edu (802) 656-1201
Additional Notes	<ul style="list-style-type: none"> • Visiting students are responsible for arranging their own travel. • Housing will be provided free of cost to visiting students by local UVM COM students and faculty. • All students are responsible for their own meals. • Course enrollment preference is given to students from the 4 institutions matching in Ob/Gyn, then students from UVM-LCOM/Family Med, then students from Tufts, Brown and UMass/Family Med, and then the course opens to ObGyn students at all VSAS affiliated institutions. • The maximum number of students for the course is 25.

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Obstetrics and Gynecology: OBGY-4522 - General OB/GYN	
Prerequisites:	OB/GYN Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	<p>Patient Care (I.A): Demonstrate skills in core activities required for patient care including establishing rapport, collecting a patient history and performing a physical examination. School Objectives Patient Care (I.A)</p> <p>Patient Care (I.B): Interpret clinical findings, make appropriate use of tests and procedures, formulate assessments, and develop effective plans to diagnose, treat, and prevent health problems and to promote patient health. School Objectives Patient Care (I.B)</p> <p>Patient Care (I.C): Demonstrate compassion, courtesy, and respect for the social and cultural perspective of the patient. School Objectives Patient Care (I.C)</p> <p>Medical Knowledge (II.A): Demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences related to the practice of medicine. School Objectives Medical Knowledge (II.A)</p> <p>Medical Knowledge (II.B): Apply scientific knowledge to explain determinants of health, mechanisms and consequences of diseases, and principles underlying methods of diagnosis, treatment, prevention, and health promotion, at individual and population levels in current and evolving health care settings. School Objectives Medical Knowledge (II.B)</p> <p>Medical Knowledge (II.C): Interpret and analyze information to develop appropriate diagnostic assessments and plans for treatment, disease prevention, and promotion of health. School Objectives Medical Knowledge (II.C)</p> <p>Medical Knowledge (II.D): Locate, evaluate, and synthesize information required for patient care from the medical literature using appropriate resources and technology. School Objectives Medical Knowledge (II.D)</p>

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OBGY-4522 continued. . .	
Course Objectives: cont.	<p>Medical Knowledge (II.E): Demonstrate behaviors of life-long learning guided by continuous self-assessment and improvement. School Objectives Medical Knowledge (II.E)</p> <p>Interpersonal/Communication Skills (IV.A): Communicate and collaborate effectively with patients, families and health professionals to provide compassionate, appropriate, and effective patient care. School Objectives Interpersonal/Communication-IV.A</p> <p>Interpersonal/Communication Skills (IV.B): Communicate appropriately and effectively with patients, families, and the public across a broad range of socioeconomic and cultural backgrounds School Objectives Interpersonal/Communication-IV.B</p> <p>Professionalism (V.): Behave in accordance with professional and ethical principles, including but not limited to altruism, compassion and empathy, accountability and responsibility, excellence and scholarship, duty and service, social responsibility, honor and integrity, respect, humility, and cultural competence School Objectives Professionalism (V.)</p> <p>Systems-Based Practice (VI.A): Demonstrate awareness of and responsiveness to the larger context of systems of health care through effective use of system resources, coordination of care, and practices that enhance quality and safety. School Objectives Systems-Based Practice (VI.A)</p> <p>Systems-Based Practice (VI.B): Participate in the care of patients as an integrated member of an effective health care team. School Objectives Systems-Based Practice (VI.B)</p>
Course Description	<p>The student will be exposed to the full spectrum of outpatient women's health including obstetrical and gynecologic patients. The student will work with several ob/gyn generalist faculty in their outpatient clinic settings seeing patients for prenatal visits, antepartum, and postpartum visits. Students will see patients for health prevention and annual exams. Students will see patients with a multitude of gynecologic conditions and learn to take a comprehensive ob/gyn history, perform a competent breast and pelvic exam, formulate a differential diagnosis, and execute a treatment plan.</p>
Course Objectives	<p>Demonstrate the ability to take a comprehensive Ob/Gyn history relevant to the chief complaint.</p>

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OBGY-4522 continued. . .	
Course Objectives cont.	Demonstrate the ability to perform a competent breast and pelvic exam. Evaluate a patient with gynecologic and/or an obstetric complaint and formulate a differential diagnosis and a treatment plan. Demonstrate knowledge of appropriate well-woman testing for diabetes, thyroid disease, breast/colon/ and cervical cancer screening.
Learning Activities	The schedule and mandatory conferences will be given to the student prior to starting the course by Dr. Justin DeAngelis.
Required Readings	To be determined.
Formative Student Assessment	Formative assessment and feedback will be given to the student by generalist faculty who they work with on a daily basis.
Summative Student Assessment	The summative evaluation and grade (Pass/Fail) will be completed by Dr. Bronwyn Kenny and informed by the formative faculty evaluations.
First Day Information	Students should contact Dr. Justin DeAngelis via email the week prior to their course to obtain a schedule for the 2 weeks, and information regarding where to go and at what time on the first day.
Course Director	Justin DeAngelis, MD
Course Administrator/Coordinator	Sara Tourville
Contact Information	Sara Tourville, 89 Beaumont Avenue, Given D201A, Burlington, vt 05405, (802) 656-1201, sara.tourville@uvm.edu

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Orthopedics: ORTH-8506 - AI: Orthopaedic Surgery	
Prerequisites:	Surgery Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	<p>This four week experience is specifically designed to introduce senior students to the field of orthopaedic surgery because they are considering the specialty as a career, or because they are pursuing another specialty that requires a working knowledge of operative musculoskeletal care. The goal is to provide a comprehensive surgical experience in preparation for other acting internships or internship itself. The same curriculum is also available to senior students from other institutions who desire experience at Vermont during certain months in a competitive application process.</p> <p>UVM Orthopaedics provides subspecialty faculty in all disciplines, but this rotation focuses on introduction to inpatient orthopaedic surgery in the setting of a Level 1 trauma center, and a high volume joint reconstruction practice. The student will participate in a block of time on each service. Exposure is also planned in outpatient sports medicine, pediatrics, foot & ankle or spine depending on faculty availability.</p> <p>The student is expected to participate fully at the level of an intern by the conclusion of the rotation, including taking responsibility for individual patients on rounds, work in the clinics and in the operating room suite. Reliability, responsibility, team-participation and professionalism are measured. A formal presentation to the residents and faculty is required for successful completion.</p>
Course Objectives	<p>PC: All students on this rotation are expected to demonstrate proficiency in fundamental s of orthopaedic emergencies, basic radiograph interpretation, intervention skills such as splinting and/or joint aspiration, and solid history and physical examination skills. In addition, the student should demonstrate appropriate treatment plans including options for interventional management, understanding of the preoperative evaluation and postoperative assessment, and basic details of the surgical plans.</p> <p>MK: The student is expected to complete a syllabus of required reading that emphasizes advanced concepts in basic science, biomechanics, recognition of coexisting social/health issues, management of orthopaedic emergencies, casting and splinting, and basic operative planning. Emphasis is placed on anatomy, physical exam, differential diagnosis, and imaging interpretation.</p> <p>SBP: The student will learn basic indications for advanced imaging, surgical referral, and rehabilitation strategies, and be exposed to an integrated system of musculoskeletal care from basic diagnosis and treatment to advanced surgical strategies. The student is expected to demonstrate active, effective, and professional participation with the operating room team, the floor and clinical nursing teams, and at a basic level in a consultant role.</p> <p>COM: The student is expected to master the skills needed to communicate basic information regarding patient problems with orthopaedic staff. The student will gain skills in musculoskeletal history taking including recognition of social, racial or gender factors impacting care. The student is also expected to be able to describe a</p>

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ORTH-8506 continued. . .	
Course Objectives cont.	<p>complete patient handoff to another provider prior to the conclusion of the rotation.</p> <p>PBL: Through exposure and guidance the student will gain an understanding of resources available to facilitate life-long learning about musculoskeletal problems, and the nature and scope of these problems including an understanding of musculoskeletal emergencies, surgical options, nonsurgical alternatives, and societal impact. A basic understanding of the role of quality improvement, morbidity and mortality conferences, and continuing medical education in orthopaedics is expected.</p> <p>PROF: The student is expected to demonstrate compassionate interactions with musculoskeletal patients, responsible communication with other providers involved in musculoskeletal care, and the ability to synthesize and present information on a specific musculoskeletal problem.</p>
Summative Student Assessment	<p>Grading System: Honors/Pass/Fail. Letters of recommendation can be provided by faculty with substantive exposure, and from the Program Director with the input from the attending and resident staff.</p> <p>Evaluations: UVM COM Competency Based Evaluations: Dr. Jennifer Lisle, Course Director, individual faculty and/or resident staff with close observation of the student if applicable. Powerpoint presentation required at conclusion of rotation. Teaching evaluations for faculty mentor and/or resident staff required.</p>
First Day Information	<p>Preference is given to those students applying to orthopaedic residency. Limited to two students per month, April, May and June if necessary. Students not applying to orthopaedic residency but interested in the rotation may be able to arrange months at other times.</p>
Course Administrator/Coordinator	<p>Betty LaMothe betty.lamothe@med.uvm.edu Jennifer Lisle, jennifer.lisle@vtmednet.org</p>

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Pathology: PATH-1052 - Medical/Surgical Autopsy	
Prerequisites:	Medicine Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	The immediate mentor for the medical student is the pathology resident on the The University of Vermont Medical Center Autopsy Service that month. Thus, the medical student is expected to shadow that resident and to participate in and contribute to all activities related to autopsy pathology. The medical student will have graded responsibility as the month progresses, with the expectation that he/she will demonstrate increasing competency in any of the activities listed in the course objectives. The medical student is expected to attend the autopsy and all neuropathology conferences and other Pathology Department conferences, as the autopsy case load allows. The medical student is also expected to alert the resident on service of any required time away during the rotation.
Course Objectives	The activities occurring in the Autopsy Service at The University of Vermont Medical Center are numerous and wide-ranging. They include utilization and interpretation of the medical record, interaction with clinicians, external examination of the deceased, evisceration and dissection techniques, microscopy, documentation and interpretation of gross and microscopic findings, exploration of relevant medical literature, generation of the final autopsy report and exposure to quality assurance mechanisms. The goal of the rotation is to expose the medical student to these activities and encourage increasing participation as the month progresses.
Summative Student Assessment	Since the medical student will work closely with the pathology resident, the resident will have major input in evaluating the student. The autopsy technicians and the autopsy attendings will also offer their evaluations. Evaluation of the student will be based on: 1) close involvement in all autopsy-related activities; 2) demonstration of increasing knowledge and skill; 3) contribution to the overall work effort (e.g., searching medical literature, acquiring additional patient history, etc.) and, 4) attendance and participation in conferences.
Course Director	Dr. Sharon Mount, M.D.
Course Administrator/Coordinator	Brenda Shinosky Brenda.shinosky@med.uvm.edu (802) 656-0359 Given Courtyard - S269
Contact Information	Contact Sharon Mount, M.D. before beginning the elective to schedule the time and meeting place for the first day. Sharon.mount@uvmhealth.org
Additional Notes	Required Conferences: --Gross Conference: Wednesdays at 3:00 p.m. --Microscopic Conference: Thursdays at 3:00 p.m. --Brain Cutting: Wednesdays at 7:30 a.m. --M&M Conferences, if an autopsied patient is to be presented

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PATH-1052 continued. . .	
Additional Notes cont.	Pathology Grand Rounds; Wednesday at 1:00 pm Other Conferences as time allows: --Unknown Slide Conferences: Mondays at noon After the elective lottery, enrollment in this activity is by arrangement only. Please add yourself to the waitlist and contact the coordinator listed to confirm enrollment in this offering.

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Pathology: PATH-1055 - Forensic Pathology	
Prerequisites:	Medicine Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>The students will participate in all functions of a state wide death investigative system. The course involves the day-to-day practice of forensic pathology. It requires the student to accompany the Medical Examiner on scene visits, to participate in medico-legal autopsies, to research special topics of interest, and to learn methods of central record keeping and preparation of statistical reports.</p> <p>Goals: At the conclusion of this elective students should be able to:</p> <ul style="list-style-type: none"> • Identify which types of deaths fall under Medical Examiner Jurisdiction • Ability to accurately complete a Certificate of Death/ understand cause, manner and mechanism of death • Ability to recognize and identify common findings at autopsy (postmortem changes, basic injuries, common diseases, normal anatomy etc.)
Course Objectives	<p>The basic objective is for students to understand practical aspects of what happens to individuals following death. At some time during a physician's career a patient will die. Physicians should know (or be familiar with) the process/ procedures which happen after death is pronounced. Although actual procedures do vary from jurisdiction to jurisdiction, basic principles (death certification, reportable deaths to Medical examiners/Coroners or health departments) are for the most part universal. Students will become familiar with how death data is used to make public health policy decisions.</p>
Summative Student Assessment	<ol style="list-style-type: none"> 1. Consistent and punctual attendance on service. 2. Attendance at all relevant conferences. 3. Evidence of consistent participation in case discussions on rounds. 4. Evidence of independent reading centered on current cases and topics discussed on rounds.
First Day Information	Please plan to show up on the start date of the rotation at 8:30 am at the OCME office.
Course Director	Dr. Steven Shapiro
Course Administrator/Coordinator	Brenda Shinosky Brenda.shinosky@med.uvm.edu (802) 656-0359 Given Courtyard - S269

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Pathology: PATH-1057 - Anatomic Pathology Elective	
Prerequisites:	Medicine and Surgery Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	This course is designed as an introduction to the practical aspects of Pathology for students interested in this field. During this elective the student will get a feel for daily practice in Pathology by working closely with Pathology residents and attending physicians in the area of Surgical Pathology (general and subspecialty), Cytopathology, and Autopsy. Through ownership of patient cases, a successful student will gain knowledge and practical skills instrumental to a residency application to Pathology.
Course Objectives	<ol style="list-style-type: none"> 1. Discover the clinical role of a Pathologist in patient care. 2. Manage a basic approach to gross and microscopic examination of common specimens. 3. Research and review the approach to rare cases. 4. Perform specific AAMC Core Entrustable Professional Activities (EPAs) (e.g. Form clinical questions and retrieve evidence to advance patient care; Collaborate as a member of an inter-professional team); Please refer to MDTB presenter evaluation (an appendix to this form) for full EPAs (EPAs will also be discussed directly with the course director at the beginning of the course).
Learning Activities	Attend all Resident noontime lectures Pathology Grand Rounds, Wednesday at 1:00 pm Multi-disciplinary conference as desired Grand Rounds Presentation.
Formative Student Assessment	The student will meet with the course director, Dr. Threlkeld every Friday afternoon to touch base. At this meeting, at least one faculty will be chosen by the student to submit for required evaluations. Students are also evaluated following presenting patients at Multi-disciplinary Tumor Board Conference.
Summative Student Assessment	Students will be evaluated by residents and pathology staff. Dr. Threlkeld will compile a final evaluation from these sources along with the Multi-disciplinary Tumor Board evaluation to complete the student's final evaluation, MSPE narrative and grade.
First Day Information	Students will meet with Dr. Threlkeld on first day of elective to review the expectations for this course.
Course Director	Kirsten Threlkeld, MD
Course Administrator/Coordinator	Brenda Shinosky Brenda.shinosky@med.uvm.edu (802) 656-0397 Given Courtyard - S269
Contact Information	Course Questions: kirsten.threlkeld@uvmhealth.org

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PATH-1057 continued. . .	
Additional Notes	Available all year except in the month of January, February, March, October, November, and December. 4 weeks; arrangement for 2weeks can be made under special circumstances. The month of September with special arrangements will be considered. Mandatory attendance is required at weekly conferences. A list will be provided at the start of the course

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Pathology: PATH-1066 - Clinical Pathology Elective	
Prerequisites:	Medicine Clerkships
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	This course is designed as an introduction to the practical aspects of Clinical Pathology designed primarily for students interested in a career in Pathology. During this elective the student will gain an understanding for daily practice in Clinical Pathology by working closely with Pathology residents and attending physicians in the areas of Chemistry, Hematology, Microbiology, Transfusion Medicine/Coagulation, Cytogenetics, and Molecular Pathology. Through engaging in the individual laboratory workflows, a successful student will gain knowledge and practical skills instrumental to a residency application in Pathology. Specific daily activities will vary from section to section, but will involve laboratory rounds, reading, hands-on activities, review of patient records and results, presentations, and learning how the laboratory interfaces with the clinicians.
Course Objectives	The student will have an opportunity to understand the process of delivering laboratory results from the laboratory's perspective. The student will gain an appreciation of the complexity of delivering quality laboratory services to a diverse patient population and increase their fund of clinical knowledge. In addition, proper utilization of healthcare resources in the form of laboratory tests will be discussed.
Learning Activities	Attend all Resident Noon lectures. Pathology Grand Rounds, Wednesday at 1:00 pm Presentation 20-30 minute required
Formative Student Assessment	Each Friday the student will choose at least one faculty member to submit for evaluations and e-mail the course director. At least one faculty will be chosen by the student to submit for required evaluations. Verbal feedback is provided by the course director immediately following the student's grand rounds presentation.
Summative Student Assessment	Students will be evaluated by residents and pathology staff. The course director will compile a final evaluation from these sources to complete the student's final evaluation, MSPE narrative and grade.
First Day Information	Students meet with course director within the first two weeks of the rotation to discuss topic and date of required presentation on a clinical pathology topic of the student's choice at Pathology Grand Rounds. Course director will assist in identifying and finding a faculty mentor to assist and guide the student in this process.
Course Director	Juli-Anne Gardner, MD or Katherine Devitt, MD
Course Administrator/Coordinator	Brenda Shinosky Brenda.shinosky@med.uvm.edu (802) 656-0359 Given Courtyard - S269

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PATH-1066 continued. . .	
Contact Information	Contact Information: Course Questions: Dr. Juli-Anne Gardner juli-anne.gardner@uvmhealth.org Katherine Devitt katherine.devitt@uvmhealth.org
Additional Notes	Available April, May, June, July, and August 4 weeks; arrangement for 2weeks can be made under special circumstances. September available with special arrangements Mandatory attendance is required at weekly conferences. A list will be provided at the start of the course.

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Pediatrics: PED-5503 - Pediatric Pulmonology	
Prerequisites:	Pediatrics Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	<ol style="list-style-type: none"> 1. Four to five half-day clinics per week (cystic fibrosis and pulmonary) 2. Daily inpatient rounds (both pulmonary service and consultation) 3. Participation in flexible bronchoscopy
Course Objectives	<ol style="list-style-type: none"> 1. Recognize, evaluate and treat common pediatric respiratory disorders 2. Interpretation of chest imaging and pulmonary function testing 3. Learn about the management of chronic respiratory illness
Summative Student Assessment	<ol style="list-style-type: none"> 1. Direct observation/presentation of case by student 2. Evaluation of new patient and progress notes 3. One didactic presentation per month by the student
First Day Information	Contact Kelly Cowan, MD at Kelly.cowan@uvmhealth.org before the beginning of the elective to schedule the time and meeting place for the first day.
Course Director	Director William Raszka, MD Preceptor Kelly Cowan, MD
Course Administrator/Coordinator	Enrollment contacts: Patty McClellan, patricia.mcclellan@med.uvm.edu
Additional Notes	After the elective lottery, enrollment in this activity is by arrangement only. Please add yourself to the waitlist and contact the coordinator listed to confirm enrollment in this offering.

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Pediatrics: PED-5504 - Pediatric Gastroenterology & Nutrition	
Prerequisites:	Pediatrics Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	This elective will provide the student with an introduction to the evaluation and management of common problems in pediatric gastroenterology and nutrition, including disorders of the esophagus, stomach, intestines, liver, and pancreas, and feeding problems, nutritional assessment, malnutrition, parenteral nutrition, and special formulas.
Course Objectives	The student will work as an Acting Resident, performing consultations on hospitalized patients, and assisting at daily outpatient clinics, and during procedures such as upper and lower endoscopy, manometry, biopsy, breath hydrogen testing, and esophageal pH probe studies. In addition to attendance at conferences and textbook and journal reading, the student will select a topic for review.
Summative Student Assessment	Performance will be evaluated using the Advanced Integration Evaluation Form.
First Day Information	Contact Pamela Puthoor, MD before beginning the elective to schedule the time and meeting place for the first day. Pamela.puthoor@uvmhealth.org
Course Director	Director William Raszka, MD Preceptors Jillian Sullivan, MD, Mike D'Amico, MD, Pam Puthoor, MD
Course Administrator/Coordinator	Enrollment contacts: Patty McClellan, patricia.mcclellan@med.uvm.edu
Additional Notes	After the elective lottery, enrollment in this activity is by arrangement only. Please add yourself to the waitlist and contact the coordinator listed to confirm enrollment in this offering.

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Pediatrics: PED-5508 - Sports Medicine	
Prerequisites:	Pediatrics Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	The elective will include assigned reading, experience with a professional trainer of athletes, attendance at athletic events where injuries may be expected, ambulatory care of patients with sports injuries, and acting as team physician (under supervision). A short paper (3-5 pages) or an oral presentation will be required and will be assigned by Dr. Slauterbeck. Dr. Slauterbeck will give lectures on various aspects of sports medicine. Contact Pediatric Clerkship Coordinator at 656-0026, 2 weeks before the beginning of this elective to obtain a schedule and list of contacts for the month.
Course Objectives	To learn how to how to assess patients with sports medicine complaints; To improve history and physical exam techniques for sports related musculoskeletal injuries; To develop a broader knowledge of basic sport medicine conditions; To familiarize oneself with athletic trainers and sports physical therapists in their treatment and prevention of athletic injury; To develop a better understanding of the interrelationship between the athlete, athletic trainer, coach, physician, and physical therapist.
Summative Student Assessment	Performance will be evaluated by the course preceptor using the Advanced Integration Evaluation Form.
First Day Information	Please contact James Slauterbeck, MD before beginning the course to schedule the time and meeting place for the first day. James.slauterbeck@med.uvm.edu
Course Director	Director William Raszka, MD Preceptor James Slauterbeck, MD
Course Administrator/Coordinator	Enrollment contact: Patty McClellan patricia.mcclellan@med.uvm.edu
Additional Notes	After the elective lottery, enrollment in this activity is by arrangement only. Please add yourself to the waitlist and contact the coordinator listed to confirm enrollment in this offering.

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Pediatrics: PED-5510 - Clinical Genetics	
Prerequisites:	Pediatrics Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	The student will attend regularly scheduled clinics in Burlington and at outreach sites. The student will perform inpatient consultations. There will be brief exposure to light microscope cytogenetics and DNA analysis. Readings and computer programs will be provided. The student will participate in any related conferences that occur during the elective. The student will give a 20-minute oral presentation on a topic of interest in genetics.
Course Objectives	The student will gain a basic understanding of clinical genetics, dysmorphism, and teratology. The student will learn to evaluate individuals with dysmorphic findings, analyze pedigree data, and provide genetic counseling. The student will also gain insight as to the application of genetics in medical care for common diseases such as cancer, in both children and adults. The student will participate in consideration of the ethical implications of genetics.
Summative Student Assessment	Performance will be evaluated using the Advanced Integration Evaluation Form.
First Day Information	Please contact Leah Burke, MD before beginning the course to schedule the time and meeting place for the first day. leah.burke@uvmhealth.org
Course Director	Director William Raszka, MD Preceptor Leah Burke, MD & Robert Wildin, MD
Course Administrator/Coordinator	Enrollment contacts Patty McClellan, patricia.mcclellan@med.uvm.edu
Additional Notes	After the elective lottery, enrollment in this activity is by arrangement only. Please add yourself to the waitlist and contact the coordinator listed to confirm enrollment in this offering.

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Pediatrics: PED-5511 - Pediatric Infectious Disease	
Prerequisites:	Pediatrics Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	This course serves as an introduction to the principles of pediatric infectious diseases. Participants will develop a rational and consistent approach to the ill child with a potential infectious disease complication. Students will learn the important historical and physical examination findings that help guide decision-making. Students will have the opportunity to explore “bugs and drugs” in detail and select particular areas of interest in which to focus.
Course Objectives	The student working with the pediatric infectious disease attending, will see all inpatient and outpatient infectious disease consults and patients in the pediatric travel clinic. In addition, the student will participate in joint adult and pediatric infectious disease conferences, microbiology laboratory Rounds, and telephone “curbside” consults.
Summative Student Assessment	Performance will be evaluated using the Advanced Integration Evaluation Form.
First Day Information	Please contact William Raszka, MD before beginning the course to schedule the time and meeting place for the first day. william.raszka@med.uvm.edu
Course Director	William Raszka, MD Benjamin Lee, MD
Course Administrator/Coordinator	Patty McClellan, patricia.mcclellan@med.uvm.edu
Additional Notes	After the elective lottery, enrollment in this activity is by arrangement only. Please add yourself to the waitlist and contact the coordinator listed to confirm enrollment in this offering. Other months and two week blocks may be available by request. Please contact Patty McClellan.

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Pediatrics: PED-5512 - Pediatric Cardiology	
Prerequisites:	Pediatrics Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	Students will develop a basic understanding of the anatomy, physiology and therapy for the most common congenital and acquired pediatric heart diseases.
Course Objectives	The student will attend regularly scheduled clinics in Burlington and are invited to attend outreach clinics in Vermont and New York, as well as observe diagnostic studies such as echocardiograms and catheterizations. Readings will be directed according to patient exposure. The student will evaluate all inpatient consultations.
Summative Student Assessment	Performance will be evaluated using the Advanced Integration Evaluation Form.
First Day Information	Contact Jonathan Flyer, MD at jonathan.flyer@uvmhealth.org or the Pediatric Cardiology Office at 847-8950, before the beginning of the elective to schedule the time and meeting place for the first day.
Course Director	Director William Raszka, MD Preceptors: Nancy Drucker, MD, Scott B. Yeager, MD, Jonathan Flyer, MD and Niels Giddins, MD
Course Administrator/Coordinator	Enrollment contacts: contact Patty McClellan, patricia.mcclellan@med.uvm.edu
Additional Notes	After the elective lottery, enrollment in this activity is by arrangement only. Please add yourself to the waitlist and contact the coordinator listed to confirm enrollment in this offering.

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Pediatrics: PED-5513 - Pediatric Hematology/Oncology	
Prerequisites:	Pediatrics Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	The student will gain knowledge about the diagnosis and care of children with hematological and oncological diseases. S/he will gain experience in looking at peripheral blood smears and bone marrows, and, if desired and available, will learn an approach to clinical and/or laboratory research.
Course Objectives	The student will attend the hematology/oncology clinic, Rounds on all hematology/oncology inpatients, and provide subspecialty consultation for inpatients and outpatients. The student may participate in a clinical project and/or laboratory research experience.
Summative Student Assessment	Performance will be evaluated by the pediatric hematology/oncology faculty using the Advanced Integration Evaluation Form.
First Day Information	Contact Heather Bradeen, MD at 847-2850 before the beginning of the elective to schedule the time and meeting place for the first day.
Course Director	Director William Raszka, MD Preceptors: Heather Bradeen, MD, Alan Homans, MD, Jessica Heath, MD
Course Administrator/Coordinator	Contacts: Patty McClellan, patricia.mcclellan@med.uvm.edu
Additional Notes	After the elective lottery, enrollment in this activity is by arrangement only. Please add yourself to the waitlist and contact the coordinator listed to confirm enrollment in this offering.

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Pediatrics: PED-5526 - Pediatric Endocrinology	
Prerequisites:	Pediatrics Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	5-6 Half day clinic sessions each week, Daily inpatient rounds on patients on the endocrine service and consults, Team based Conferences, Diabetic Teaching sessions
Summative Student Assessment	Direct observation by the attending, Review of any progress notes and admission notes. Assessment will be done using the standard COM Assessment of Clinical Competencies in Advanced Integration form.
First Day Information	Please contact Paul.Zimakas@uvmhealth.org about where and what time to meet on the first day.
Course Director	Director: Wiliam Raszka, MD Preceptor: PJ Zimakas, MD, Jennifer Todd, MD
Course Administrator/Coordinator	Pediatric Clerkship Coordinator: Patty McClellan patricia.mcclellan@med.uvm.edu 656-0026
Additional Notes	After the elective lottery, enrollment in this activity is by arrangement only. Please add yourself to the waitlist and contact the coordinator listed to confirm enrollment in this offering.

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Psychiatry: MDPS-3551 - Consultation Psychiatry	
Prerequisites:	Psychiatry Clerkship
Restriction days:	730
Keywords:	
Course Objectives:	
Course Description	The goal is to learn about the presentation of psychiatric problems, symptoms, and disorders in patients hospitalized on non-psychiatric services, and to learn to perform psychiatric evaluations and recommend interventions with such patients.
Course Objectives	The student will be an integral part of the Psychiatric Consultation Service (PCS) team and will be assigned patients to evaluate and follow during their hospital stays. The student will round each day with the PCS team and will work with the director and assistant director of the service, as well as with the house officer(s), junior medical students, and others assigned to the service.
Summative Student Assessment	Performance will be evaluated using the Advanced Integration Evaluation Form. Evaluation will be based upon the quality of the student's interviewing and diagnostic skills, oral presentations, written consultations, team participation, and any additional projects s/he negotiates with the faculty.
Course Director	Dr. Rabinowitz
Course Administrator/Coordinator	Debra Smail, debra.smail@uvm.edu
Additional Notes	Please check with Debra Smail to see if there is any availability during a particular month.

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Psychiatry: MDPS-3554 - Outpatient Psychiatry	
Prerequisites:	Psychiatry Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	The goal is to provide the student with a variety of experiences in outpatient psychiatry, depending upon the particular interests of the student. Areas in which students may participate include adult psychiatry, child and adolescent psychiatry, geriatric psychiatry, memory disorders, cognitive behavioral psychotherapy, methadone treatment and treatment of substance use disorders, partial hospital treatment, and pain evaluation and management. Community Psychiatry and Crisis Evaluation and management are two additional options.
Course Objectives	The student, together with the course director, will design a schedule for the month that includes experiences in those areas of outpatient psychiatry that are of particular interest to him or her, and to gain experience in the assessment and management of patients who are treated in the outpatient setting. During a typical outpatient psychiatry month medical students attend the residents psychotherapy seminars on Mondays, the Mood and Anxiety Disorders Clinic one or two afternoons each week, participate in the Psychopharmacology Clinic and Rounds on Tuesday afternoons, and participate in 2 mornings a week (generally on Tuesday and Thursday mornings) at Seneca, the partial hospital/day program where students observe and participate in group cognitive behavioral therapy. Wednesdays are usually spent in the Pediatric Psychiatry Clinic participating in the evaluation of new and ongoing patients. Friday includes attendance of Grand Rounds in the morning, and participation in the Geriatric Clinic in the afternoon. A review of literature on a selected topic and presentation of that review on one of the outpatient services is expected of each student.
Summative Student Assessment	Performance will be evaluated using the Advanced Integration Evaluation Form. The student will be evaluated on the basis of his or her initiative and professionalism, and on the knowledge and skills s/he is able to acquire.
Course Director	Dr. Jacobson
Course Administrator/Coordinator	Debra Smail, debra.smail@uvm.edu

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Surgery: SURG-9501 - AI: Surgical Critical Care	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>The student will function as an integral member of the multidisciplinary medical team directing the care of critically ill patients in the surgical intensive care unit. The student will share responsibility with the junior house staff on the Surgical Critical Care service for the care of 2-3 patients. S/he will be supervised directly by the senior resident and attendings on the service. During this rotation, the student will learn to treat complex disease states with multiple organ involvement, to obtain, integrate and use data in a highly technical environment, and to formulate treatment plans based on basic pathophysiologic principles. Exposure to subspecialty neurosurgical care in areas of brain tumors, brain aneurysms, and spinal diseases is also available.</p> <p>Through a combination of daily teaching Rounds and formal lecture sessions, the core curriculum will cover hemodynamic monitoring, use of inotropes and vasodilators, shock, arrhythmias, pacemakers/IABP, airway management, mechanical ventilation, interpretation of arterial blood gases, use of sedation/analgesics/muscle relaxants, fluid/electrolyte problems, infectious disease, nutrition, endocrine emergencies, and trauma.</p>
Course Objectives	<p>At completion of the SICU AI rotation a student will be able to:</p> <ul style="list-style-type: none"> •Present critically ill patients on rounds to the multidisciplinary team, including key portions of physical exam, laboratory and other diagnostic data, and present a organ system based assessment and plan (in consultation with the resident team). •Understand the members of the multidisciplinary team and their roles in caring for the critically ill patient. •Understand the evaluation and initial management of patients in shock. •Understand the common causes of acute respiratory failure in the SICU population, and the application of support with non-invasive methods (high flow nasal cannula, BIPAP, CPAP) and basic modes of invasive mechanical ventilation. Describe which settings on mechanical ventilator address hypoxemic versus ventilatory failure. •Understand and discuss the importance of low tidal volume ventilation in "at risk" populations in the SICU. •Understand the basics of invasive and noninvasive monitoring. •Learn about some of the applications of point of care ultrasound in the management of SICU patients.
Summative Student Assessment	Evaluation will be based on daily clinical performance
First Day Information	Meet SICU residents in the east side of the SICU at 5:55am - come in scrubs - no white coats
Course Director	Bill Charash, MD

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SURG-9501 continued. . .	
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Additional Notes	You must put in 20 work days for the AI rotation. If there is a holiday or you have to miss a day during the rotation, the day must be made up either over a weekend or an extra day at the beginning or end of the rotation. The AI will take call one night per week, the date to be determined in discussion with the chief resident.

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Surgery: SURG-9506 - AI: Thoracic & Cardiac Surgery	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>The goals of this Acting Internship are:</p> <ol style="list-style-type: none"> 1. To observe and participate in the evaluation and management of patients with surgical thoracic and cardiac disease. 2. To learn the application of monitoring techniques and pharmacologic manipulation in the management of the critically ill cardiac patient. 3. To participate in the intra-operative care of cardiac and thoracic patients, and to improve basic surgical technique. 4. To increase one's knowledge base of common cardiac and thoracic disease processes.
Course Objectives	<p>At the completion of this rotation a student will be able to:</p> <ul style="list-style-type: none"> •Discuss the history, physical, workup and management of Aortic Stenosis, Coronary Artery Disease, thoracic aortic aneurysms, and NSCL cancer •Review the differential diagnosis of a patient with chest pain •Manage uncomplicated patients who have undergone Thoracotomy or VATS for biopsy, decortication or lung resection •Discuss common complications of lung surgery and their management •Perform basic wound and skin closure •Present clinic patients in a succinct and thorough manner
Summative Student Assessment	Evaluation will be based upon assessment of performance by the attending physicians and the senior resident of the service.
Course Director	Ana Parsee, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Additional Notes	Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation. No call is required.

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Surgery: SURG-9508 - AI: Neurosurgery	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>This Acting Internship will give the student a firm background in the fundamentals of the neurological exam, the diagnostic work-up of the neurosurgical patient, and the opportunity to participate in neurosurgical operative procedures. The teaching program is planned to give the student a solid foundation in the pathophysiology of neurosurgical disease and to form the basis from which the student can evaluate both routine and emergent neurosurgical conditions. The emphasis is on giving the student a working knowledge of neurosurgical practice from the standpoint of the specialist; the rotation also gives students interested in primary care an opportunity to learn to recognize both chronic and emergent neurosurgical disease. Exposure to all neurosurgical diseases of the brain such as brain tumors and brain aneurysms, as well as spinal and peripheral nerve disorders is available.</p>
Course Objectives	<p>The student will be a working member of the neurosurgical team. S/he will be under the immediate supervision of the chief resident and the attending staff. S/he shall participate in all daily Rounds with the neurosurgical house staff and all teaching conferences. The conferences consist of Neurosurgery Grand Rounds, Neuroscience Grand Rounds, Neuroradiology and Neuropathology Rounds, and Tumor and Vascular Conferences, all of which are held on Thursdays. The student shares night call with one of the senior neurosurgical residents and is encouraged to scrub on all trauma cases during her/his nights on call. If the student so desires, s/he can also be called to participate in ER operative cases on her/his "off" nights. The latter is not mandatory. The student is encouraged to accompany the neurosurgical resident on all emergency room calls during the day. This provides a first-hand experience in caring for the acutely ill neurosurgical patient. The student is especially encouraged to participate on all cases which s/he has worked-up. Scrubbing on cases in which s/he has not been involved pre-operatively is at the discretion of the attending physician. Students are also encouraged to join the attending neurosurgeons in the outpatient clinics where new and follow-up patients with a wide variety of neurosurgical problems are assessed, and management plans are discussed.</p>
Summative Student Assessment	Evaluation will be based on staff and senior resident observation.
Course Director	Ryan Jewell, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Contact Information	Students will contact the neurosurgery resident pager (through PAS) to find out when and where to go on their first day.

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SURG-9508 continued. . .	
Additional Notes	Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.

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Surgery: SURG-9510 - Ophthalmology	
Prerequisites:	Surgery Clerkship
Restriction days:	60
Keywords:	
Course Objectives:	
Course Description	The goals and format are varied to suit the individual needs of the student. Generally this elective is intended to acquaint the student with the management of the more common eye problems, and is particularly suited for students interested in primary or emergency care. It is also useful for students interested in ophthalmology. It enables them to become better acquainted with ophthalmology as a potential career.
Summative Student Assessment	Evaluation will be based on staff observation. A written examination and topical presentation are required.
First Day Information	Requirements for the start of the rotation will be emailed to you prior to starting on this rotation.
Course Director	David Diaz, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Contact Information	Dr. Diaz's administrator will be emailing students with their schedule.
Additional Notes	Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.

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Surgery: SURG-9512 - Pediatric Otolaryngology	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	Emphasis will be on the evaluation and management of outpatient pediatric otolaryngologic problems with an exposure to operative pediatric otolaryngology.
Course Objectives	Patient examination experience is developed in a preceptorship setting with daily informal patient discussions. Several general didactic conferences and lectures delivered weekly are available to the students during their rotation.
Course Director	Richard Hubbell, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Additional Notes	Only one AI will be accepted per month for either the Pediatric Otolaryngology AI or the Otolaryngology AI. The ENT AI is the only one listed with a vacancy. If you want Pediatric ENT, please email Brenda Barr. Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.

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Surgery: SURG-9515 - AI: Pediatric Surgery	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	This course aims to incorporate the student as a team member in Pediatric Surgery. The program fulfills one of the requirements for the Surgical Senior Major. The student works on all aspects of pediatric surgical diseases including the pre-operative work-up and decision-making, the operative experience, and the post-operative management and follow-up of the child. Students are instructed in and participate with the care of the pediatric trauma patient as well, including non-operative management. Hands on operative experience is provided to the student with an interest commensurate with technical ability.
Course Objectives	The rotation requires close association with the surgical resident on the service, pre-operative work-ups are carried out, daily notes are written on patients, and basic science principles are stressed in the conduct of patient care. The student takes part in the review sessions for Core students and delivers a lecture on a subject relating to one of the current patient's problems.
Summative Student Assessment	Evaluation will be based on interest shown, involvement in patient care, analytic ability, evidence of specific reading on subjects, accuracy of chart notes, to a limited extent technical ability, and the quality of the subject review.
Course Director	Kennith Sartorelli, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Contact Information	Students should meet the Pedisurg/Transplant residents in the Surgery Residents' lounge (Baird 307) at 5:55am for rounding.
Additional Notes	Surgery residents share responsibilities for the Pediatric Surgery and Transplant Surgery services. Only one AI will be scheduled for either Transplant or Pedisurg per month. Contact Brenda Barr for more information. Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.

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Surgery: SURG-9516 - AI: Vascular Surgery	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<ol style="list-style-type: none"> 1. To develop diagnostic and therapeutic skills in the management of the surgical patients and her/his medical/surgical problems. 2. To function constructively under the demands of clinical practice conditions. 3. To actively participate in the pre-operative care, surgery and post-operative care of the surgical patient. 4. To emphasize the basic science principles of clinical surgery by the application of these principles during an Acting Internship. 5. To become acquainted with and perform some of the teaching functions of a house officer toward junior students.
Course Objectives	<p>The Vascular Surgery Division would like to welcome you to our service. In the time on service we hope to give you further appreciation for the complexity of vascular surgery patients and provide an introductory experience with the management of peripheral vascular disease. To maximize your educational experience we have developed the following expectations.</p> <ol style="list-style-type: none"> 1. As an acting intern your primary goal is to gain practical experience in the day to day evaluation and management of vascular surgery patients. Patient assessment, data collection and the ability to reliably and concisely convey the patient's progress to resident and attending are important skills for every intern. Learn how to prioritize the multiple duties (daily rounds, writing notes, reviewing labs and studies etc.) involved in patient care. You should begin to differentiate the "sick" from a "well" vascular surgery patient by recognizing the expected course of recovery after surgery. 2. Read the Medical Student Learning Objectives by the first day or your rotation. 3. You are expected to follow all inpatients admitted to the Vascular Service. This includes the patient's complete course from the operating room through the intensive care unit or hospital floor. You should write a daily progress note on the patient(s) as directed by the vascular fellow. 4. You are expected to spend one half day to one full day per week in the outpatient vascular clinic located in ACC Main Pavilion Level 5. 5. You can expect to perform superficial and deep wound closures in the operating room under the supervision of the attending vascular surgeon. Assistants at surgery the following week are generally assigned by the vascular fellow. There is a tying and suturing trainer for experience in constructing vascular anastomosis. The suture trainer is located in 5th floor ACC in Dr. Steinthorsson's office. There is an Ultrasound guided vascular access model in the vascular lab. 6. You are should spend one-half day during the month in the noninvasive vascular lab observing common studies. 7. You are expected to spend one-half day during the month participating in diagnostic and interventional angiograms. Again the fellow will assign. 8. Participate in the Simulation Lab (suturing and cadaver

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SURG-9516 continued. . .	
Course Objectives cont.	<p>dissections) along with the rest of vascular team on the 2nd and 4th Mondays of the month from 4-5pm.</p> <p>9. On call experience will be once per week. Your call should be taken along with the vascular fellow to ensure the best experience.</p> <p>10. The Red Book provides additional educational material on common vascular disorders. We expect you will read it while on the rotation. See COMET or the Web at:</p> <p>11. The Red Cards provide information on the expected day to day care of vascular patients. Read them on the first day of your rotation and refer to them for guidelines on perioperative orders and management. Hard copies are available in the Vascular Outpatient Clinic or find the Red Cards on COMET</p> <p>Dr. Alef will direct the Vascular Surgery Acting Interns. See him at the start of your rotation for orientation. Plan to meet with him weekly to discuss your progress and experience</p>
Required Readings	See information on Comet
Formative Student Assessment	Evaluation will be based on daily clinical performance
Summative Student Assessment	Performance will be evaluated by the attending and resident staff of that particular service using the Advanced Integration Assessment Form.
Course Director	Matt Alef, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Contact Information	Students should meet the Vascular Surgery residents in the Surgery Residents' lounge (Baird 307) at 5:55am for rounding.
Additional Notes	Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.

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Surgery: SURG-9518 - AI: Otolaryngology	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	The student will gain a broad-based understanding of the various aspects of otolaryngology, including office practice, inpatient care, operating room experience, and Emergency Room care.
Course Objectives	The student will act as part of the residency staff. S/he will be partially responsible, under direct resident and attending staff supervision, for the evaluation of office patients, the management of inpatients, and will be assisting in surgical procedures. The student will take call every fourth night along with a designated resident and will participate in the work-up and treatment of patients in the Emergency Room with the resident's supervision. A basic text will be provided but the student should expand his or her knowledge by consulting textbooks and journals of otolaryngology, and s/he may be asked to give a brief presentation on a designated topic at the end of the rotation.
Summative Student Assessment	Performance will be evaluated by the attending preceptor and resident based on daily clinical experience as well a case-based oral exam at the end of the rotation. Any presentations will also be critiqued and serve as a means of evaluation.
Course Director	William Brundage, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Contact Information	Students should contact Karen Brown (847-3152) to find out when and where to go on your first day.
Additional Notes	Only one AI will be accepted per month for either the Pediatric Otolaryngology AI or the Otolaryngology AI. The ENT AI is the only one listed as open Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.

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Surgery: SURG-9519 - AI: Urology	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	The rotation will provide the student with exposure to: 1.Assessment of patients in the office setting 2.Development of diagnostic and therapeutic plans for common urologic problems 3.Participation in care of hospitalized patients (urology and consultation services) 4.Operating room and urologic surgery
Course Objectives	At the completion of this rotation a student will be able to: Obtain a complete, yet focused urologic history Perform and describe the findings of a comprehensive urologic physical exam including the male genital and rectal examinations. Develop an appropriate differential diagnosis and management plan for common urologic conditions including scrotal pain, hematuria, urinary calculi, obstructive/irritative voiding symptoms, erectile dysfunction and urinary tract infections. Develop basic urologic skills including skin closure, urethral catheter placement, manipulation of wires and basic cystoscopy. Expand knowledge base in a specific urologic topic through critical appraisal of primary literature and concisely summarize and present findings.
Summative Student Assessment	Performance will be evaluated using the departmental Student Evaluation Form, focusing on patient presentations and preparation for the operating room experience.
First Day Information	Please contact the chief resident at least two days prior to the start of the rotation. Unless otherwise directed, you will meet the urology team on Baird 3 around 6:00 am to round on inpatients. You will then meet the rest of the division at our Monday morning conference at 6:30.
Course Director	Peter Holoch, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Contact Information	Please contact the chief resident at least two days prior to the start of the rotation. They also need to meet with Dr. Peter Holoch.
Additional Notes	Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation. You will be expected to participate in call duties for one full weekend (home call from Friday evening through Monday morning). You will be involved in the evaluation of consults & ED patients, any operative cases and daily rounds during this weekend.

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Surgery: SURG-9520 - AI: Plastic Surgery	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	This elective will promote the understanding of clinical wound healing and to correlate the relationships between tissue handling techniques and grafting with the fundamental biology of wound healing. The student will understand the relationship between deformity from any cause and difficulties with body image and self-esteem.
Course Objectives	At the completion of this rotation a student will be able to: Obtain a complete, yet focused plastic surgery history. Perform and describe the findings of a comprehensive plastic surgery physical exam, including those specific to breast surgery, hand surgery, pediatric plastic surgery, facial and lower extremity trauma, and decubitus ulcers. Develop an appropriate management plan for commonly treated plastic surgery conditions, including breast reconstruction, facial trauma, lower extremity trauma, cleft lip/palate, general and oncologic reconstruction, burns and decubitus ulcers. Develop basic plastic surgery skills including skin closure with deep dermal and subcuticular sutures. Expand knowledge in the area of basic wound care management and understand the various types of dressings and indications for each.
Summative Student Assessment	Evaluation will be based on observation of the staff. In general this course will be individualized and will be conducted as a one-on-one program.
Course Director	Kevin Maguire, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Additional Notes	Surgery residents share responsibilities for the Surgical Oncology and Plastic Surgery services. Only one AI will be scheduled for either SurgOnc or Plastic Surgery per month. Therefore, each of these services is only listed for an AI position every other month; for example, if you want C/T in May but Pedisurg is the service available for that month, signup for May and email the coordinator to let her know which service you want. Therefore, each of these services is only listed for an AI position every other month; for example, if you want SurgOnc in May but Plastic Surgery is the service available for that month, signup for May and email Brenda Barr to let her know which service you want. You must put in 20 work days for the AI rotation. If there is a holiday during the rotation, the day must be made up either over a weekend or an extra day at the beginning or end of the rotation.

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Surgery: SURG-9521 - AI: General Surgery	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<ol style="list-style-type: none"> 1. To develop diagnostic and therapeutic skills in the management of the surgical patients and her/his medical/surgical problems. 2. To function constructively under the demands of clinical practice conditions. 3. To actively participate in the pre-operative care, surgery and post-operative care of the surgical patient. 4. To emphasize the basic science principles of clinical surgery by the application of these principles during an Acting Internship. 5. To become acquainted with and perform some of the teaching functions of a house officer toward junior students.
Course Objectives	<ul style="list-style-type: none"> •Discuss the history, physical, workup and management of patients with common colorectal diagnoses (hemorrhoids, fissures, fistula, diverticulitis, colorectal cancer, and inflammatory bowel disease) •Manage uncomplicated inpatient colorectal surgery patients with indirect supervision •Present inpatients on ward rounds in a succinct and thorough manner •Describe and take part in the elements of disposition planning •Assist on uncomplicated laparoscopic and open colorectal surgical cases •Perform basic wound and skin closure •Perform basic and complicated wound care •Present clinic patients in a succinct and thorough manner
Summative Student Assessment	Performance will be evaluated by the attending and resident staff of that particular service using the Advanced Integration Evaluation Form.
Course Director	Edward Borrazzo, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Contact Information	Students should meet the General Surgery residents in the Surgery Residents' lounge (Baird 307) at 5:55am for rounding.
Additional Notes	<p>Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.</p> <p>Als will take one day of weekend call, not 24hrs, on 3 of the 4 weekends. They can provide continuity of care when a cross-covering resident is on for a day of the weekend.</p>

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Surgery: SURG-9522 - AI: Surgical Oncology	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<ol style="list-style-type: none"> 1. To develop diagnostic and therapeutic skills in the management of the surgical patients and her/his medical/surgical problems. 2. To function constructively under the demands of clinical practice conditions. 3. To actively participate in the pre-operative care, surgery and post-operative care of the surgical patient. 4. To emphasize the basic science principles of clinical surgery by the application of these principles during an Acting Internship. 5. To become acquainted with and perform some of the teaching functions of a house officer toward junior students.
Course Objectives	<p>At the completion of this rotation a student will be able to:</p> <ul style="list-style-type: none"> •Discuss the history, physical, workup and management of breast cancer, melanoma, and sarcoma •Review the differential diagnosis of a woman with a breast mass or an abnormal mammogram •Manage uncomplicated patients who have undergone breast or melanoma surgery with indirect supervision •Discuss common complications of breast surgery and their management •Perform basic wound and skin closure
Summative Student Assessment	Performance will be evaluated by the attending and resident staff of that particular service using the Advanced Integration Evaluation Form.
Course Director	Seth Harlow, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611
Contact Information	Students should meet the SurgOnc/Plastic Surgery residents in the Surgery Residents' lounge (Baird 307) at 5:55am for rounding.
Additional Notes	<p>Surgery residents share responsibilities for Surgical Oncology and Plastic Surgery. Only one AI will be scheduled for either SurgOnc or Plastic Surgery per month. Therefore, each of these services is only listed for an AI position every other month; for example, if you want SurgOnc in May but Plastics is the service available for that month, signup for May and email Brenda Barr to let her know which service you want.</p> <p>Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.</p>

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Surgery: SURG-9524 - AI: Acute Care Service	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>This is now called the Acute Care Surgery (Trauma, Surgical Critical Care and Emergency General Surgery) -</p> <p>The student is assigned to one of five surgical services with the same responsibilities, under supervision, as a G-1 house officer to include:</p> <ol style="list-style-type: none"> 1. Patient assessment and clinical decision making 2. Interpretation of pre-op and post-op studies 3. Assisting in operative cases - under supervision: <ol style="list-style-type: none"> a. Retraction b. Skin closure c. Incision and drainage d. Dissection e. Central venous line placement f. Chest tube placement and removal g. Debridement h. Cantor tube placement i. NG tube placement j. Blood drawing 4. Assuming responsibility for post-op care 5. Work Rounds 6. Alternate night call (no more than every third night) in hospital 7. Daily chart notes on patients <p>The student is a member of the team including a Senior House Officer who carries overall responsibility and is the student's immediate supervisor.</p>
Course Objectives	<p>At the completion of this rotation a student will be able to:</p> <ul style="list-style-type: none"> •Obtain a complete, yet focused, surgical history and physical •Discuss the presentation, workup and management of common emergency general surgery diagnoses (appendicitis, gallbladder disease, small bowel obstruction, diverticulitis) •Discuss the basic principles of trauma management (primary survey, secondary survey, management of shock) •Manage uncomplicated patients who have undergone general surgery procedures or suffered traumatic injuries
Summative Student Assessment	Performance will be evaluated by the attending and resident staff of that particular service using the Advanced Integration Evaluation Form.
First Day Information	Students should meet the ACS residents in the Surgery Residents' lounge (Baird 307) at 5:55am for rounding.
Course Director	Ajai Maholtra, MD
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org 802-847-6611

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SURG-9524 continued. . .	
Contact Information	Students should meet the ACS residents in the Surgery Residents' lounge (Baird 307) at 5:55am for rounding.
Additional Notes	Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.

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Surgery: SURG-9525 - AI:Trnsplnt Immnlgy&Hepatoblrly	
Prerequisites:	Surgery Clerkship
Restriction days:	30
Keywords:	
Course Objectives:	
Course Description	<p>Transplant, Immunology and Hepatobiliary Surgery</p> <p>The University of Vermont Transplant and hepatobiliary Acting Internship is focused on providing a high quality learning experience by learning to provide multi-modal services to patients with end stage renal disease, type I diabetes, and hepatobiliary diseases. We are focused on helping students develop into ethical and compassionate physicians. Students are expected to learn to deliver multidisciplinary care through comprehensive medical and surgical services for patients with transplant and hepatobiliary diseases.</p>
Course Objectives	<p>Patient Care: Students must demonstrate patient care that is compassionate, and effective.</p> <p>Medical Knowledge: Students must demonstrate and apply knowledge of established and evolving principles in the treatment of transplant and hepatobiliary diseases.</p> <p>Evidence-based Knowledge and Learning: Students must demonstrate the ability to research and evaluate clinical questions and assimilate scientific and clinical evidence and engage in constant self-evaluation and life-long learning.</p> <p>Interpersonal and Communication Skills: Students must demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.</p> <p>Professionalism: Students must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles and personal integrity.</p> <p>Systems-based Practice: Students must demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care.</p> <p>Knowledge: Demonstrate knowledge and understanding of common transplant and hepatobiliary diseases. Understand the indications and limitations of diagnostic studies used to evaluate patients with transplant and hepatobiliary diseases. Demonstrate an understanding of indications for transplantation and hepatobiliary procedures, and alternatives to surgical treatments. Be familiar with various transplant and hepatobiliary procedures and know their expected outcomes and complications. Develop cost/risk/benefit appreciation as it applies to patient care. Be familiar with action, dosage and use of common pharmacologic agents used in transplant and hepatobiliary patients (immunosuppression, analgesics, antibiotics, anticoagulants, sedatives, etc...).</p>

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SURG-9525 continued. . .	
Course Objectives cont.	<p>Skills: Evaluate and assess patients with transplant and hepatobiliary diseases. Understand and possibly perform various basic procedures, such as: oVenipuncture oPlacement of intravenous catheter oInsertion of urethral (Foley) catheter oInsertion of nasogastric tube oRemoval of surgical drains oClosure of surgical incisions oRemoval of suture/staples oDressing changes Apply specific protocol in the operating room (scrubbing, gowning, gloving, prepping and draping). Develop specific motor skills utilized in surgery. Interpret common laboratory tests (CBC, electrolytes, blood gases, urinalysis, coagulation studies). Interpret common radiologic tests (CXR, KUB, UGI, BE, bone, nuclear tests, US, CT) Perform and interpret EKG</p> <p>Attitudes: Acquire a caring and sympathetic attitude appropriate for dealing with patients with surgical illnesses. Acquire an appreciation for the collegial interaction necessary to work on the surgical service, in the OR, etc. Realize the scope of responsibility you assume as the surgeon and to that of the family and referring physicians. Demonstrate an openness to recognize limitations by using resources referrals and consultation with supervising preceptors or others when appropriate. Demonstrate an openness to receive constructive criticism. Demonstrate professional conduct encompassing attendance, dress code, and general demeanor. Respect patient privacy information.</p>
Learning Activities	<p>Learning Objectives For each presenting symptom, condition, or disease state, the student should be expected to know: Anatomy Pathophysiology Common associated symptoms Positive physical findings Differential diagnosis Treatment oMedical/surgical alternatives oWhen treated medically, indications for surgical intervention oRisk factor assessment oPre- and post-operative management oComplications: recognition and treatment Adjuvant therapies – indications and outcome Prognosis Discharge: timing, patient education, follow-up, resumption of activities General Recommendations It is important to integrate into the surgical team. You are</p>

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SURG-9525 continued. . .	
Learning Activities cont.	<p>encouraged to follow individual patients throughout their hospital stay. It is appropriate to ask questions on rounds, in the OR, etc, regarding patient management. Be enthusiastic! Make an effort to be present in the operating room to see the induction of anesthesia, preoperative preparations, and the performance of surgical procedures. Volunteer to write history and physicals, brief op notes, post-op orders, progress notes, and to present patients on morning or afternoon rounds. It is appropriate to follow individual patients more closely than others.</p> <p>Student Responsibilities Attendance is required at: Lectures Student's Rounds; time and location announced weekly by Dr. Marroquin. Skills laboratory Respective general surgery service conference Exams Mid-term feedback session with Dr. Marroquin Physicians and Society lectures when they occur When not present at the above, your presence should be in: Operating room Outpatient clinic Baird 6 Lectures The lectures deal with both transplant and hepatobiliary diseases. Lectures are given on Fridays, unless otherwise indicated on your schedule. Prompt attendance at all lectures is expected. The attending staff and resident staff are aware that the lectures are given, and they expect you to attend. Should extenuating circumstances make it impossible for you to attend a lecture, please communicate with someone on service. Patient Care Experience Interactions with pre-op and post-op patients in an ambulatory setting are a valuable part of each student's educational experience. Every effort should be made to document (logged) your experience which will be discussed with Dr. Marroquin during your rotation. Patients that should be logged should include those: Seen in the outpatient clinic. OR cases that you scrubbed. In-house consults that you participated in evaluation. Patients who you do a procedure on (e.g. Foley, IV, blood draw).</p>
Required Readings	E-syllabus and UVMC Transplant Manual
Summative Student Assessment	The course evaluation will be based on a composite of the student's participation on rounds, in the operating room, clinic divisional conferences and required case presentation.
First Day Information	Schedule a meeting with Dr. Marroquin the week before the rotation.
Course Director	Carlos E. Marroquin, M.D., F.A.C.S.
Course Administrator/Coordinator	Brenda Barr brenda.barr@uvmhealth.org

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SURG-9525 continued. . .	
Course Administrator/Coordinator cont.	802-847-6611
Contact Information	<p>Carlos E. Marroquin 1 South Prospect Burlington, VT 05401 Students should meet the Transplant/Pedisurg residents in the Surgery Residents' lounge (Baird 307) for rounding at 5:55am. Carlos.Marroquin@UVMHealth.org</p>
Additional Notes	<p>Transplant residents also cover Pediatric Surgery. Only one AI will be scheduled for either Transplant or Pedisurg per month. Therefore, each of these services is only listed for an AI position every other month; for example, if you want Transplant in May but Pedisurg is the service available for that month, signup for May and email Brenda Barr to let her know which service you want. Students must put in 20 work days for the AI rotation. If there is a holiday or another reason a day(s) are missed during the rotation, the day(s) must be made up either over a weekend or an extra day at the beginning or end of the rotation.</p>