

MD ELECTIVES

2018-2019



EVMS
Eastern Virginia Medical School

**Community Focus.
World Impact.**

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At EVMS our mission is to achieve “excellence in medical and health professions education, research and patient care. We value creating and fostering a diverse and cohesive faculty, professional staff and student body as the surest way to achieve our mission. Adhering to the highest ethical standards, we will strive to improve the health of our community and to be recognized as a national center of intellectual and clinical strength in medicine.”

The Office of Medical Education oversees the undergraduate medical school curriculum, ensures regular assessment and evaluation of student progress and monitors curriculum compliance with the nationally recognized accrediting authority for medical education programs, the Liaison Committee on Medical Education.

We are committed to providing you with the best educational opportunities to become the skilled healthcare providers of tomorrow.

In contrast to the first three years of the medical school curriculum, during which students follow a fixed schedule, the M4 year provides considerable flexibility. Although the M4 curriculum contains some required elements, students have considerable latitude to design their educational programs to fit their individual needs and interests. The M4 year is intended to provide each student with a well-rounded educational experience, building on the knowledge and experiences of the first three years and preparing the student for postgraduate training.

The purpose of the Electives Catalog is to serve as a resource to assist students in scheduling and understanding the administrative aspects of the M4 year.

Descriptions of electives appearing in this catalog were prepared by the faculty of the department offering the elective and by the Office of Medical Education. At present, the information in this book is accurate to the best of our knowledge. However, policies, procedures, and faculty listings may change from time to time. Any questions regarding descriptive material of a particular elective should be directed to the appropriate departmental elective course director.

Please contact the Office of Medical Education with any questions or scheduling concerns.

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A. Brooke Hooper, MD
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Ronald W. Flenner, MD
Vice Dean for Academic Affairs

DEPARTMENT	CHAIR	LOCATION	PHONE
Anesthesia	Timothy Holroyd, MD	Sentara Norfolk General	757-388-4871
Dermatology	Abby Van Voorhees, MD	EVMS Andrews Hall	757-446-5914
Emergency Medicine	Francis Counselman, MD	Sentara Norfolk General	757-388-3397
Family & Community Medicine	Alison Dobbie, MB ChB	EVMS Hofheimer Hall	757-446-7323
Internal Medicine	Jerry Nadler, MD	EVMS Hofheimer Hall	757-446-8910
Microbiology & Molecular Cell Biology	Julie Kerry, PhD	EVMS Lewis Hall	757-446-5660
Neurology	Daniel Cohen, MD	Sentara Norfolk General	757-388-6133
Obstetrics & Gynecology	Alfred Abuhamad, MD	EVMS Hofheimer Hall	757-446-5283
Otolaryngology-Head & Neck Surgery	Barry Strasnick, MD	Sentara Norfolk General	757-388-6200
Ophthalmology	Shannon McCole, MD	Sentara Norfolk General	757-388-2100
Pathology & Anatomy	Richard Conran, MD PhD JD	EVMS Lewis Hall	757-446-8978
Pediatrics	C.W. Gowen Jr, MD	Children's Hospital of The King's Daughters	757-668-7241
Physical Medicine & Rehabilitation	Antonio Quidgley-Nevaras, MD	EVMS Hofheimer Hall	757-446-5915
Physiological Sciences	Gerald Pepe, PhD	EVMS Lewis Hall	757-446-5616
Psychiatry & Behavioral Sciences	Stephen Deutsch, MD PhD	EVMS Hofheimer Hall	757-446-5949
Radiation Oncology & Biophysics	Mark Sinesi, MD PhD	Sentara Norfolk General	757-388-3483
Radiology	Lester Johnson, MD PhD	Sentara Norfolk General	757-388-1141
Surgery	L.D. Britt, MD MPH	EVMS Hofheimer Hall	757-446-8950
Urology	Kurt McCammon, MD	Urology of Virginia	757-452-3459

Role of the Student: Each student should have identified a clinical faculty advisor. It is the responsibility of the student to contact the advisor to discuss possible career choices and other factors that might directly or indirectly affect the 4th year elective schedule. Each student is responsible for developing a 4th year schedule that is a well-rounded educational experience meeting all graduation and site compliance requirements. The student should be proactive in communicating in a timely and honest manner with the M4 coordinator and Office of Medical Education regarding scheduling of interviews and elective rotations.

Role of the Faculty Advisor: The advisor should play more than a passive or permissive role and should be able to supply perspective to developing the student's educational program. In most instances the most satisfying programs result from a strong collaboration between student and advisor. The role of the advisor is dual, combining personal, supportive counseling with study and career guidance; helping the student to develop an overall plan for the entire elective year and assisting with interviewing skills and evaluating residency programs. The advisor should be available for periodic consultation and should take an active interest in the success of the elective program and the student's performance.

Role of the Elective Course Director(s): The student must negotiate with the intended directors to reach agreement on the extent of supervision and the resources required to achieve the objectives. If the directors cannot provide the resources or feel that the objectives for the elective are unable to be obtained due to time needed away from the rotation for interviews, the student must seek an alternative elective course. The Course Director is responsible for completing the final evaluation for the student. At the director's discretion another faculty member can be assigned to this role.

Role of the Department Chairman: The Department Chairmen have an important role in ensuring that the resources - faculty, space, time and interest - are available for both intramural and extramural electives. The Elective Course Director must notify his/her department chairman prior to agreeing to supervise an elective to ensure that there is no infringement on the educational or other resources required for the core curriculum.

Role of the Associate Dean for Clinical Education: The Associate Dean for Clinical Education, in cooperation with the Vice Dean for Academic Affairs and the Medical Education Committee (MEC), oversees the operation of the electives program. The Associate Dean for Clinical Education will review and approve each student's planned program, and may return an unsatisfactory program to the student for revision, or may prohibit a student from taking an extramural elective if it is felt to be inappropriate. All electives not in this catalog, with the exception of those offered through VSLO, must be approved by the Associate Dean for Clinical Education. All schedule changes will require approval from the Associate Dean for Clinical Education. When necessary, the Associate Dean of Clinical Education will seek the advice and counsel of the Vice Dean for Academic Affairs and the Medical Education Committee.

In order to graduate from the Eastern Virginia Medical School with the M.D. degree, students must satisfactorily complete all elements of the prescribed four-year curriculum. Students must have successfully completed all requirements of the M1, M2 and M3 years before beginning the M4 year.

REQUIREMENTS FOR PROMOTION to M4

- All clerkships must be completed with a passing score prior to beginning the M4 year
 - » Family Medicine
 - » Internal Medicine
 - » Neuropsychiatry
 - » Obstetrics & Gynecology
 - » Pediatrics
 - » Surgery
- M3 Intersession, Palliative Medicine – The Spectrum course
- Advanced Cardiac Life Support Course (ACLS)
- Basic Life Support Course (BLS)
- Compliance with EVMS health requirements
- Completion of required Sentara compliance trainings
- Required EMR training
- Required EVMS annual compliance training

THE M4 YEAR

The M4 year is designed to promote a well-rounded educational experience (NOT a preliminary internship). Use the M4 year as an opportunity to broaden your horizons, not to get an early start on specialty training.

- Includes 32 weeks of full-time, scheduled, supervised, and evaluated educational experiences.
 - » 20 weeks of required electives
 - Acting Internship (4 weeks)
 - Ambulatory Care (4 weeks)
 - Critical Care (4 weeks)
 - Scholarly Activity (2 weeks)
 - Interprofessional Education (2 weeks)
 - Successful Transition to an Effective Practice (4 weeks)
 - » 12 weeks of elective time
- Includes 12 weeks of unscheduled time for professional development and personal use.
 - » Additional clinical or basic science rotations
 - » USMLE Step 2 study
 - » Interviews
 - » Vacations/Travel/Personal Time
- Students are allowed to work with faculty to design clinical experiences other than those in this Catalog. The process for creating an individualized experience or away rotation is described in detail in this catalog. **Please plan ahead** as there are multiple compliance requirements and deadlines that must be met.
- Students MUST TAKE USMLE Step 2 Clinical Knowledge (CK) and USMLE Step 2 Clinical Skills (CS) **before September 30, 2018** and must PASS in order to graduate.

ACTING INTERNSHIP (AI)

Must be completed at EVMS or an affiliated site

Affiliated sites include:

- Bon Secours, Hampton Roads
- Children’s Hospital of The Kings Daughters
- Naval Medical Center Portsmouth
- Sentara, Hampton Roads
- Veteran’s Affairs Medical Center, Hampton

The Acting Internship (AI) elective is designed to encourage senior medical students, regardless of desired future specialty, to assume patient care responsibilities similar to those of an intern (PGY-1 resident), including night call. Acting interns should carry patients independently of interns and have similar duties, schedules, and didactic sessions as interns. They should work all shifts with their teams. They should take ownership of their patients and be the primary point person regarding their care. They should be increasingly (but safely) independent in their clinical practice but able to recognize when help is needed.

By the end of the acting internship, students should be proficient and efficient in handling the daily tasks of an intern, demonstrating expected behaviors for an entrustable learner including:

- Performing complete and accurate history and physical exams in an organized fashion
- Prioritizing a differential diagnosis following a clinical encounter
- Recommending and interpreting common diagnostic and screening tests
- Entering and discussing orders and prescriptions
- Documenting a clinical encounter accurately in the patient record
- Presenting an oral presentation of a clinical encounter
- Forming clinical questions and retrieving evidence to advance patient care
- Giving or receiving a patient handover to transition care responsibly
- Collaborating as a member of an interprofessional team
- Obtaining informed consent for tests and/or procedures
- Identifying system failures and contributing to a culture of safety and improvement

AVAILABLE ACTING INTERNSHIPS

Emergency Medicine	ERM400	ERM402		
Family Medicine	FAM417	FAM423		
Internal Medicine	INT417	INT418		
OB/GYN	OBG400	OBG402	OBG419	OBG418
Otolaryngology	OTO404			
Pediatrics	PED405			
Psychiatry	PSY407	PSY412	PSY417	
Surgery	SUR402	SUR404	SUR416	
Urology	URO404			

Other electives that meet the definition of this course category may be submitted for approval to fulfill this requirement using the M4 Elective Objectives form.

AMBULATORY MEDICINE (AMB)

May be completed at any LCME-accredited school or under the supervision of a physician with an active faculty appointment at an LCME-accredited school

The Ambulatory Medicine (AMB) elective is intended to allow senior medical students to participate in the evaluation and management of patients who present with a wide variety of disorders in a setting where physicians provide primarily outpatient care. A minimum of 5 half days per week (averaged over the course of the elective) must be in an Ambulatory setting providing direct patient care (not in a shadowing role).

By the end of the ambulatory medicine elective, students should be proficient and efficient in the management of an outpatient in a clinic setting, demonstrating expected behaviors for an entrustable learner including:

- Performing complete and accurate history and physical exams in an organized fashion
- Prioritizing a differential diagnosis following a clinical encounter
- Recommending and interpreting common diagnostic and screening tests
- Entering and discussing orders and prescriptions
- Documenting a clinical encounter accurately in the patient record
- Presenting an oral presentation of a clinical encounter
- Forming clinical questions and retrieving evidence to advance patient care
- Collaborating as a member of an interprofessional team

AVAILABLE AMBULATORY ELECTIVES

Emergency Medicine	ERM400	ERM402						
Family Medicine	FAM418	FAM424	FAM410	FAM429	FAM404	FAM426	FAM430	
Internal Medicine	INT403	INT451	INT474	INT468	INT485	INT432	INT479	INT435
	INT484	INT420	INT480	INT481	INT482	INT413	INT428	INT483
	INT487							
Neurology	NEU401							
OB/GYN	OBG407	OBG417						
Ophthalmology	OPH400	OPH403						
Orthopedics	ORT403							
Otolaryngology	OTO403							
Physical Medicine & Rehabilitation	PMR400							
Pediatrics	PED414	PED427	PED402	PED411	PED423	PED419	PED422	
Psychiatry	PSY408	PSY419	PSY420					

Other electives that meet the definition of this course category may be submitted for approval to fulfill this requirement using the M4 Elective Objectives form.

CRITICAL CARE (CC)

May be completed at any LCME-accredited school or under the supervision of a physician with an active faculty appointment at an LCME-accredited school

The Critical Care (CC) elective is intended to expose senior medical students to the evaluation and management of seriously ill patients, often in intensive-care settings, with the goal of learning how to appropriately evaluate the emergent patient. Students should be increasingly (but safely) independent in their clinical practice and able to recognize when help is needed. Students should work all shifts with their teams, including night call.

By the end of the critical care elective, students should be able to develop a thorough, systematic approach to the rapid recognition, evaluation, treatment, and disposition of the critically ill or injured patient, demonstrating expected behaviors for an entrustable learner including:

- Recognizing a patient requiring urgent or emergent management
- Prioritizing a differential diagnosis for a critically ill or injured patient
- Recommending and interpreting common diagnostic and screening tests
- Entering and discussing orders and prescriptions
- Presenting an oral presentation of a clinical encounter
- Forming clinical questions and retrieving evidence to advance patient care
- Collaborating as a member of an interprofessional team
- Obtaining informed consent for a test or a procedure
- Performing general procedures of a physician

AVAILABLE CRITICAL CARE ELECTIVES

Emergency Medicine	ERM400	ERM402	
Internal Medicine	INT472		
Pediatrics	PED415	PED401	PED422
Surgery	SUR404	SUR416	SUR414

Other electives that meet the definition of this course category may be submitted for approval to fulfill this requirement using the M4 Elective Objectives form.

INTERPROFESSIONAL EDUCATION (IPE)

7 hours of face-to-face course work and simulations at EVMS on assigned Monday for all EVMS students. Student can sign up during another elective if approved and excused by that elective course director.

The Interprofessional Education (IPE) elective is intended to expose senior medical students to an interprofessional team approach to patient care. This course will engage students from a variety of healthcare backgrounds to work together online and in person over the course of 2 weeks, culminating in a day-long standardized patient workshop utilizing telehealth and home healthcare monitoring technology.

By the end of the interprofessional education elective, students should be able to identify core competencies for interprofessional practice and collaboration and describe the benefit and necessity of interprofessional team approaches in complex health systems, demonstrating expected behaviors for an entrustable learner including:

- Forming clinical questions and retrieving evidence to advance patient care
- Collaborating as a member of an interprofessional team

SUCCESSFUL TRANSITION TO EFFECTIVE PRACTICE (STEP)

Required course for all EVMS students in Block 10

The Successful Transition to Effective Practice (STEP) course is a required rotation intended to prepare senior medical students for residency.

By the end of the STEP course, students should be able to identify core competencies for effective practice, demonstrating expected behaviors for an entrustable learner including:

- Performing complete and accurate history and physical exams in an organized fashion
- Prioritizing a differential diagnosis following a clinical encounter
- Recommending and interpreting common diagnostic and screening tests
- Entering and discussing orders and prescriptions
- Documenting a clinical encounter accurately in the patient record
- Presenting an oral presentation of a clinical encounter
- Forming clinical questions and retrieving evidence to advance patient care
- Giving or receiving a patient handover to transition care responsibly
- Collaborating as a member of an interprofessional team
- Recognizing a patient requiring urgent or emergent management
- Obtaining informed consent for tests and/or procedures
- Performing general procedures of a physician
- Identifying system failures and contributing to a culture of safety and improvement

SCHOLARLY ACTIVITY

All EVMS students are required to complete one of the below courses prior to the beginning of block 10. A scholarly product must be submitted to receive credit.

ELECTIVES WITH A SCHOLARLY ACTIVITY COMPONENT

Dermatology	DRM410		
Emergency Medicine	ERM405		
Family Medicine	FAM421		
Internal Medicine	INT465	INT490	INT473
OB/GYN	OBG412		
Neurology	ANT404		
Physiological Sciences	PHY400		
Psychiatry	PSY420		
Scholarly Activity	ITD430		
Business in Medicine	ITD423		
Executive Leadership	ITD424		
Patient Safety	ITD425		

Other electives that meet the definition of this course category may be submitted for approval to fulfill this requirement using the M4 Elective Objectives form.

Many of the electives in the catalog can be used to satisfy any of several different requirements. For example, SUR404 (Shock/Trauma) can be used to satisfy the Acting Internship (AI) requirement, the Critical Care requirement, or can serve as an elective rotation.

1. Each 4-week rotation can only be used to satisfy ONE requirement.
2. An M4 rotation MAY NOT be used to remediate a failed M3 clerkship.
3. Students may not schedule electives in which they will be directly supervised or graded by members of their immediate family (parents, grandparents, spouses, siblings, in-laws or children.)
4. Students will plan “full-time” electives based on four-week blocks. Four week blocks may be developed by students into two, two-week block electives provided that proper procedures for developing electives are followed. **Electives may not be planned for less than two weeks in duration. (NOTE: Two-week rotations should include AT LEAST 10 scheduled work days.)**

AWAY ELECTIVES

Except for the required Acting Internship (AI) rotation and STEP course, any of the required or elective rotations may be completed at sites other than EVMS-affiliated institutions. EVMS encourages students to do M4 rotations at other medical schools. These can be very valuable and enjoyable experiences, and they may help to strengthen your application for residency training. In planning for these rotations, you should be aware of the following rules:

1. **Students may do a maximum of 4 months (a total of 16 weeks) at locations other than EVMS**
2. Away rotations must be done at an LCME accredited U.S. Medical School.
3. If your desired rotation is described in the catalog of the host school, that description can be used to complete the EVMS Electives Objectives form. If the elective is not described in the host school's catalog, students should follow the instructions for developing elective rotations below.
4. The majority of U.S. medical schools now require that applications from visiting students be submitted through the Visiting Student Learning Opportunities service (VSLO) managed by the Associate of American Medical Schools (AAMC). The VSLO link is <https://students-residents.aamc.org/attending-medical-school/article/about-vslo/>. Information is available from the Office of Medical Education (Dr. Janet Winner) or directly from the AAMC. Some medical schools use their own individual applications. Information for each school can be obtained from the school's website.
5. Most schools accept applications from visiting students in the spring, but may not confirm your acceptance until late spring or early summer. Most schools, including EVMS, make every effort to accommodate their own students before accepting visiting students. For extramural electives for which you have not yet received confirmation, indicate the expected rotations on your scheduling form and attach your elective objectives form.
6. When you receive your letter of confirmation (approval of rotation from outside school) please forward the letter of approval and elective objectives and description from the school's catalog to m4@evms.edu
7. If your application is not accepted, we will assist you in adjusting your schedule.

1. Identify the site. **All non-VSLO away electives require an affiliation agreement between EVMS and the site. The site must either be affiliated with EVMS or another LCME accredited institution. Obtaining agreements can be a lengthy process spanning several months. Please plan accordingly.**
2. Consult with your advisor, the appropriate department chairman, Associate Dean of Clinical Education, or the Vice Dean for Academic Affairs regarding your goals and objectives.
3. Complete an Elective Objectives Form describing the skills, knowledge or values/attitudes the student wishes to achieve. Use the following links to help you write objectives: http://www.evms.edu/media/departments/medical_education/New_Blooms_Taxonomy3-7-14.pdf and <https://learning-objectives.easygenerator.com/>
4. Review the objectives with the proposed course director, who must be a board certified physician or other comparably credentialed individual and must hold a faculty appointment with EVMS or another LCME accredited institution.
5. Submit the form to Charlene Cooper at m4@evms.edu. The proposed elective will be routed to the Associate Dean of Clinical Education and the appropriate Department Chairman for review. The affiliation agreement and faculty status will be verified during the review process.
6. This process should be completed more than 30 days prior to the start of the elective. **Electives will not be approved if submitted less than 14 days prior to the start of the elective.**
7. **An email notification of final approval must be received prior to participating in any created elective at EVMS or any other LCME accredited school.**

SCHEDULE SUBMISSION AND APPROVAL

1. In reviewing a student's proposed program, the Associate Dean of Clinical Education, Vice Dean for Academic Affairs, and the Medical Education Committee will use the following guidelines:
 - a. The program shall be well conceived and consistent with respect to fulfillment of the educational needs of the student.
 - b. The program shall be commensurate with the capabilities of the student.
 - c. The educational opportunities selected shall be of a quality sufficient to justify the expenditure of time requested.
 - d. The required rotations listed must be included in each student's planned program. A longitudinal ambulatory care elective will not satisfy the requirement for the four week ambulatory care rotation.
 - e. Students cannot change the designation of an already completed rotation.

1. A Drop/Add request form must be completed and submitted to the M4 Coordinator **NO LESS THAN 14 days** in advance of the beginning rotation date with approval from the elective supervisor of the elective being ADDED. If an Objectives Form is necessary this also should be submitted. (See Drop/Add form and deadlines for changes on the following pages). **Credit for rotations will not be given to students who fail to follow the proper procedures for changing an elective.**
2. The M4 Coordinator (Charlene Cooper) will review the requested change and approve or disapprove the request based on the balance of the student's schedule and requirements. If the request is approved, the student may then proceed to change the rotation. The student must forward confirmation that the elective supervisors for both the elective being dropped and the rotation being added have been notified.
3. **Under no circumstances should a student make schedule changes prior to receiving approval by the M4 Coordinator. Changes WILL NOT be accepted if submitted less than 14 days in advance. Credit for rotations will not be given to students who fail to follow the proper procedures for changing a rotation. No changes to schedules will be allowed after December 14, 2018.**
4. **To submit a drop/add schedule change request use the following link:**
<https://b6.caspio.com/dp.asp?AppKey=402c3000cd914ecb13054db3b75b>

The requirements for Honors, High Pass, and Pass are based on departmental policy that will be discussed with the students at the initiation of the clerkship or elective. Honors, High Pass, Pass, or Fail are the only notations sent to the Registrar's Office and appearing on transcripts.

Implications of the Grade Fail: In the event a student fails a clerkship/elective, the Course Director shall recommend both to the student and the Student Progress Committee, an appropriate remedial program. The remedial program may include taking an examination and/or repeating all or a portion of the clerkship. The recommendation is reviewed by the Student Progress Committee, which makes the final decision regarding the student's academic progress. The Student Progress Committee uses guidelines outlined in the Policies and Procedures for Student Evaluation and Progress regarding promotion of students through the education program at the medical school. At the completion of the approved remedial activity, the student will be given a grade of pass or fail.

Both grades (e.g., F/P) remain part of the student's record and transcript.

Some departments allow students who fail the written examination but have passed other portions of the clerkship to remediate the examination before receiving a final grade for the clerkship. **Remediation must occur within 2 months or a grade of "Fail" will be assigned.**

M4 YEAR STUDENTS - CLASS OF 2019

BLOCKS

- 1) July 2 - July 27, 2018
- 2) July 30 - August 24, 2018
- 3) August 27 - September 21, 2018
- 4) September 24 - October 19, 2018
- 5) October 22 - November 16, 2018
- 6) November 19 - December 14, 2018
- 7) January 2 - January 25, 2019
- 8) January 28 - February 22, 2019
- 9) February 25 - March 22, 2019
- 10) March 25 - April 19, 2019
(EVMS students complete STEP during this block)
- 11) April 22 - May 17, 2019

DEADLINE FOR CHANGES

June 18, 2018
July 16, 2018
August 13, 2018
September 10, 2018
October 8, 2018
November 5, 2018
December 14, 2018

No changes allowed after December 14, 2018

SCHEDULES: Deadline for completed EVMS M4 schedules: **May 1, 2018**

STEP 2: must be completed before **September 30, 2018**

ADVANCED CARDIAC LIFE SUPPORT: – must be completed before **December 31, 2018**

SCHEDULED TIME OFF:

Winter Break: December 15, 2018 - January 1, 2019

GRADUATION: **May 18, 2019**

Note to Visiting Students: 4th Year Visiting students may apply for electives during the blocks listed above. However, confirmation of rotation cannot be given before May 2018.

All 4th year EVMS students will be required to complete pre-rotation compliance requirements for Sentara facilities by **June 8, 2018**. Students will be enrolled in and communicated with via Blackboard to facilitate completion.

For electives taking place at facilities other than Sentara, students are required to complete all site-specific requirements a minimum of **30 days prior** to the start of the elective. All requirements for our local health systems will be housed in one central Blackboard course, [MD2019 M4 Clinical Experience Requirements](#), which students will have access to on May 1, 2018. An email announcement will be sent out through Blackboard when the compliance course opens.

Any student who has not completed the necessary required compliance activities will be prohibited from starting their elective. This delay may impact your ability to complete the scheduled elective and may impact your ability to graduate on time.

1. All visiting students must apply through the Office of Education, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, VA 23501. If a student contacts a department, the student must be referred to the Office of Education. Confirmation for Electives is granted by the Office of Education.
Only persons currently enrolled in an LCME accredited U.S. medical school are eligible to apply for admission to the Electives Program at EVMS.
2. Visiting students may take only senior year electives. **Third year clerkships are not open to any visiting students.** A visiting student must have satisfactorily completed all basic science courses (including physical diagnosis) and, by the start date of the requested elective, the applicant must have completed satisfactorily a minimum of thirty-six (36) weeks of full-time clinical experience during which the student's primary responsibility was to follow patients on a teaching service. This experience must include at least four (4) separate disciplines from among the following: Family Medicine; General Internal Medicine; Obstetrics and Gynecology; Pediatrics; Psychiatry; and General Surgery. Experience in each discipline must be at least four (4) weeks in duration. No elective will be approved for a discipline in which the requisite core clinical experience has not been satisfactorily completed.
3. An elective application form must be completed for each elective requested and approved by the visiting student's medical school official, authorizing these experiences. This form must be submitted **no later than four weeks prior** to the beginning of an elective in order to be considered. Visiting student application materials may be found on our EVMS web-site.
4. Each request for an elective must have the approval of the sponsoring department and the Office of Education.
5. In most cases, confirmation for electives will be given as soon as possible after the May 1st deadline for EVMS students. EVMS students have first priority for electives.
6. Visiting students are limited to a **maximum of twelve weeks** of electives at EVMS, except under special circumstances. (Requires approval from the Vice Dean for Academic Affairs)
7. A non-refundable **application fee of \$150.00** must be submitted along with the application materials. Each visiting student must register with the EVMS Registrar's Office prior to beginning the elective. A student identification card will be issued by our Human Resources Office, Eastern Virginia Medical School, following registration.
8. Visiting students must have adequate health insurance coverage to take electives at EVMS. Proof of personal health coverage can be submitted with the application packet or presented at the time of registration. Visiting students must also provide proof of HIPAA training, Blood Born Pathogen training and a Criminal Background report with the application packet. The EVMS Health form completed by a health care provider must also be submitted along with your application.
9. Each student is responsible for obtaining accommodations during his/her stay here.
10. No stipend will be paid by EVMS to visiting students taking electives for credit.
11. EVMS will provide evaluations to the sponsoring institutions, but credit for elective experiences will be given by the institution granting the M.D. degree to the student.

Course Information

Course Director	Zachary Albert, DO	Course Categories	Elective
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	September - May	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description

The anesthesia clinical rotation will provide the medical students with hands on experiences at airway management including the insertion of oral and nasal airways, laryngoscopy, and intubation. The student will learn basic principles of anesthetic management and the indications for different general and regional anesthetic techniques. He/she will also experience a practical review and refinement of pharmacology and physiology in the clinical setting. Students will also receive an overview of acute and chronic pain management.

Course Objectives

By the end of the elective, the student should be able to:

1. Evaluate uncomplicated patients for elective, routine surgery.
2. Recognize indications for general or regional anesthesia.
3. Set-up the equipment for anesthesia administration.
4. Place I.V. cannulas easily and be aware of operative fluid management.
5. Establish and manage airway via mask.
6. Intubate most patients.
7. Become pharmacologically and physiologically sensitive to multiple systems functions in the anesthetized and unanesthetized states.
8. Have an awareness of the complexities and complications involved pre-operatively and intra-operatively with the administration of anesthesia.
9. Have awareness of the recovery of patients from anesthesia.
10. Follow patients in their convalescence from surgery and anesthesia.
11. Become acquainted with the various modalities available for the management of acute and chronic pain.

Course Specifics

Report First Day	Naval Medical Center Portsmouth, Graduate Medical Education Office, Bldg. #3, 3rd floor at 8:00 a.m. on first day of rotation for check-in documents, before proceeding to Anesthesiology Dept., Building #2, 3rd Floor.
Student Efforts	Patient Contact: 20% Inpatient, 80% Outpatient; hrs/wk conferences/lectures from September to June; 40 hrs/wk faculty contact time
Evaluation	100% clinical observation by means of daily evaluations
Other	N/A

Site Compliance Requirements

Hospital 1	Naval Medical Center Portsmouth
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Course Information

Course Director	Christopher Dupre-Rios, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Nanette Broughman
Period Offered	Continuously	Contact Email	
Duration	2 weeks	Contact Phone #	757-388-4871
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Practical and theoretical aspects of anesthetic techniques with special emphasis on selection of the anesthetic technique of choice and contraindications to different anesthetic techniques. Selected references recommended to be read before elective.

Course Objectives

By the end of the elective, the student should be able to:

1. Evaluate uncomplicated patients for elective, straight forward surgery.
2. Recognize indications for general or regional anesthesia.
3. Understand standard and invasive monitors, including mechanism of action, indications, and troubleshooting.
4. Place I.V. cannulas easily and be aware of operative fluid management.
5. Master airway skills including: mask, ventilation, LMA placement , endotracheal intubation.
6. Understand changes in physiology during general and regional anesthesia
7. Review pharmacology of anesthetic drugs.
8. Be aware of the process of recovery from anesthesia.
9. Understand methods of post-op pain control.

Course Specifics

Report First Day	Contact at least two weeks prior to start of elective
Student Efforts	Patient Contact: 10% skills, 10% Labor and Delivery 80% OR inpatient/outpatient
Evaluation	80% clinical observation, 20% exam
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Destiny Chau, MD	Course Categories	Elective
Location	Children's Hospital of The Kings Daughters	Main Contact	Destiny Chau, MD
Period Offered	Continuously	Contact Email	Destiny.Chau@CHKD.ORG
Duration	2-4 weeks	Contact Phone #	757-668-7320
Restrictions	n/a	Pre-Requisites	Before signing up for this course, please email Ms. Lisa Seate, Lisa.Seate@chkd.org , with your motivations for taking this course and details of your past anesthesia experience.
# of Students	1 per block	Night Call	No

Course Description

The clinical anesthesia elective offered at Children's Hospital of The King's Daughters/Eastern Virginia Medical School will provide the medical student with practical and theoretical aspects of anesthetic techniques as they apply to the subspecialty of pediatric anesthesia with special emphasis on the differences between the adult and the pediatric patient in areas of airway management, fluid management, preoperative and postoperative evaluation and care. There will be hands-on experience with managing the pediatric airway including insertion of oral airways, laryngoscopy and intubation; there will also be hands-on experience in the techniques of intravenous access. Participation in resident's didactic session will be optional. Due to the very specialized nature of pediatric anesthesia, previous experience in adult anesthesia is strongly recommended. Students with this prior anesthesia experience will be given preference. Course length is 2 weeks with the option to extend to 4 weeks for those students planning to go into the anesthesiology field. **Before signing up for this course, please email Ms. Lisa Seate, Lisa.Seate@chkd.org, with your motivations for taking this course and details of your past anesthesia experience.**

Course Objectives

By the end of the elective, the student should be able to:

1. Evaluate the pediatric patient from an anesthetic perspective.
2. Recognize the indications for proceeding or delaying surgery in the child.
3. Set up basic equipment for the administration of anesthesia.
4. Understand the differences between the adult and the pediatric patient from the anesthetic perspective.
5. Gain an understanding of airway management including mask ventilation and orotracheal intubation.
6. Become familiar with the pharmacologic and physiologic effects of anesthesia on multiple organ systems in the anesthetized patient.
7. Have an awareness of the recovery of the pediatric patient from anesthesia.
8. Become familiar with the pediatric patient as a day surgery patient; follow the patient from admission in the Day Surgery Unit to discharge from PACU.

Course Specifics

Report First Day	Report to the OR Charge Desk, 3rd floor CHKD, at 6:45 am. Be ready in scrubs. Ask for the anesthesiologist board runner and introduce yourself. On the first day, go to the Anesthesiology Office to sign-in and obtain the course material.
Student Efforts	Patient Contact: 10% Inpatient, 90% Outpatient
Evaluation	100% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1	Children's Hospital of The King's Daughters
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EVMS Dermatology is committed to teaching the next generation of skilled dermatologists. Our faculty lecture at numerous national conferences, conduct research and publish annually in scholarly journals.

In addition to caring for patients at Andrews Hall (on the EVMS campus in Norfolk) and at our Virginia Beach location, our doctors provide care for our nation's veterans at the Hampton Veterans Affairs Medical Center and in underserved clinics at EVMS and Sentara Norfolk General Hospital.

Our residency program is ACGME accredited and is 3 years long. Upon completion of the program our residents are able to confidently enter private practice or a career in academic dermatology. The department also actively participates in the educational programs for both medical students and physician assistants. This includes the teaching of core courses such as histology, pathology, and clinical skills. Elective clerkships in dermatology, dermatopathology and dermatologic research are offered.

Members of EVMS Dermatology actively collaborate with investigators at EVMS, Hampton University, and Old Dominion University to answer questions about the biology of the skin and process of diagnosis. Clinical trials are conducted at Virginia Clinical Research, Inc. under the direction of Drs. David and Robert Pariser and at Children's Hospital of the King's Daughters, directed by Dr. Judith Williams.

To learn more about the Department, visit http://www.evms.edu/education/centers_institutes_departments/dermatology/

A VIDEO MESSAGE FROM THE CHAIRMAN OF DERMATOLOGY: ABBY VAN VOORHEES, MD

Course Information

Course Director	Abby Van Voorhees, MD	Course Categories	Elective
Location	Veteran’s Affairs Medical Center, Hampton Fort Norfolk Plaza EVMS Andrews Hall	Main Contact	April McGuire
Period Offered	August - May	Contact Email	mcguiral@evms.edu
Duration	4 weeks	Contact Phone #	757-446-0593
Restrictions	Aug-Oct: preference given to students pursuing a Dermatology residency	Pre-Requisites	None
# of Students	3 per block	Night Call	No

Course Description

This elective is designed to give the student exposure to clinical dermatology including the vocabulary, diagnosis, and management of common skin diseases seen in general practice. Rotations through a variety of clinical outpatient settings will provide a broad-based background.

Course Objectives

By the end of the elective the student should:

1. Be able to perform a directed history and physical examination to assess a patient with skin disease and to formulate a plan of action.
2. Be able to accurately describe skin lesions.
3. Be able to diagnose and manage the 20 most common skin diseases.
4. Be able to perform the following procedures:
 - a. KOH preparation
 - b. Tzanck smear
 - c. Scraping for ectoparasites
 - d. Wood’s light examination
5. Understand the principles of dermatologic surgery, laser, and cryotherapy and be able to perform: a) biopsies (punch and shave) b) cryotherapy of benign tumors
6. Know how and when to refer a patient to a dermatologist.

Course Specifics

Report First Day	TWO WEEKS BEFORE FIRST DAY contact April McGuire, 721 Fairfax Avenue, Suite 200 to complete paperwork required to being the elective
Student Efforts	Patient Contact: 90%, Lecture 10%, 40 hrs/wk faculty contact time
Evaluation	Pre and post-tests; clinical observation and group presentation
Other	N/A

Site Compliance Requirements

Hospital 1	Veteran’s Affairs Medical Center, Hampton
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Course Information

Course Director	Molly Smith, MD	Course Categories	Elective
Location	Pariser Dermatology Specialists, 6160 Kempsville Circle, Suite 200A, Norfolk VA	Main Contact	Molly Smith, MD
Period Offered	Continuously	Contact Email	msmith@pariserderm.com
Duration	2 or 4 weeks	Contact Phone #	757-622-6315
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Gross and microscopic pathology of skin diseases and tumors. One-to-one experience and self-study with histologic sections and basic texts. Clinical dermatology to help correlate the gross pathology with the microscopic. Designed for serious student of dermatology and/or pathology.

Course Objectives

By the end of the elective the student should:

1. Become conversive with the terminology and procedures used in skin pathology.
2. Become familiar with the scope and limitations of histopathology of the skin.
3. Be able to recognize under the microscope the common skin lesions and inflammatory skin diseases.

Course Specifics

Report First Day	6160 Kempsville Circle, Suite 200A, call one week prior to confirm
Student Efforts	Patient Contact: 100% Outpatient; half time clinical dermatology, half time dermatopathology; 1 hour/week conference
Evaluation	100% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Abby Van Voorhees, MD	Course Categories	Elective, Scholarly Activity
Location	EVMS, Andrews Hall	Main Contact	April McGuire
Period Offered	August - May	Contact Email	mcguiral@evms.edu
Duration	4 weeks	Contact Phone #	757-446-0593
Restrictions	n/a	Pre-Requisites	Identify or construct a research proposal or area of interest prior to start of rotation
# of Students	1 per block	Night Call	No

Course Description

This elective is offered to individuals with a special interest in dermatology. Opportunities will be available to pursue a research project that will result in a publication at the end of the month. Projects will be tailored to the individual’s area of interest.

Course Objectives

1. Work with a mentor to refine the project’s aims, research questions, and protocol
2. Form clinical questions and retrieve evidence to advance patient care
3. Demonstrate curiosity, objectivity, and scientific reasoning
4. Retrieve and assess evidence
5. Demonstrate awareness and early skill in the appraisal of sources and content of medical information
6. Present credible research questions and hypothesis
7. Present credible conclusions or proposed solutions of value for medical practice
8. Achieve significant results or stated goals with a presentation or publication at the end of the rotation

Course Specifics

Report First Day	Contact April McGuire two weeks in advance for schedule
Student Efforts	100% research
Evaluation	100% observation
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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The Department of Emergency Medicine is proud to serve as a center of excellence in Emergency Medicine in the Commonwealth of Virginia. We provide a comprehensive approach to the discipline of Emergency Medicine, providing leadership in clinical, academic and pre-hospital services.

We are one of the oldest Emergency Medicine residency programs and one of the oldest academic departments of Emergency Medicine in the U.S. We have been training outstanding EM physicians since 1981.

To learn more about the Department, visit http://www.evms.edu/education/centers_institutes_departments/emergency_medicine/



FRANCIS COUNSELMAN, MD

Course Information

Course Director	Michael Bono, MD FACEP	Course Categories	AI, AMB, CC, elective
Location	Sentara Hospitals	Main Contact	Jeannine Ricker
Period Offered	July - April	Contact Email	rickerje@evms.edu
Duration	4 weeks	Contact Phone #	757-388-3397
Restrictions	Blocks 1-6 reserved for students pursuing Emergency Medicine residency.	Pre-Requisites	None
# of Students	8 per session, blocks 1-6 6 per session, blocks 7-11	Night Call	Yes

Course Description

Rotate through the Emergency Medicine Department at several area Sentara hospitals with Emergency Physicians of Tidewater. The student will see and evaluate all types of emergency patients, while working closely with emergency medicine attendings and residents. There is ample opportunity for hands-on care and developing procedural and clinical skills.

Students will be assigned to a resident/attending and are expected to work their assigned shifts. Any schedule requests/changes must be approved in advance by the chief resident. Students are required to attend a series of lectures, grand rounds, SIM lab assessments, FAST exam Ultrasound, and our monthly Journal Club. The final grade is based on case conference presentation, patient/procedure logbook, clinical performance, and final exam grade. Clinical performance is a composite score based on resident and attending evaluations. The logbook refers to clinical experience documented in a patient/procedure log kept by the student during the rotation. In order to be considered for a grade of Honors for this elective, (the student must complete 15 documented shifts), a clinical score evaluation of Honors, and take the shelf exam.

Course Objectives

By the end of the elective, the student should be able to:

1. Perform the initial evaluation of the emergent patient.
2. Know the fundamentals of advanced cardiac and trauma life support.
3. Understand the evaluation and management of trauma including head injuries and orthopedic/soft tissue injuries.
4. Workup common presenting complaints such as headache, chest pain, abdominal pain, and shortness of breath.
5. Order and interpret labs (CBC, BMP, UA, and other lab tests), EKGs, and imaging studies in the evaluation of the emergent patient.
6. Recognize a patient requiring urgent or emergent care and initiate management.
7. Recognize when specialty or subspecialty consultation is appropriate.
8. Demonstrate proper wound care and suturing techniques for simple lacerations.
9. Perform a detailed examination of the traumatized head, extremities, chest, and abdomen.
10. Outline the differential diagnosis for patients with headache, chest pain, abdominal pain, and other common presenting complaints.
11. Recognize arrhythmias and ischemic patterns of EKG tracings and rhythm strips.
12. Interpret radiographs of the chest, abdomen, extremities, and spine.
13. Know how to document electronic medical records.
14. Perform a FAST Exam with the use of Ultrasound lab.

Course Specifics

Report First Day	Room 304, Raleigh Building, Sentara Norfolk General Hospital, 600 Gresham Drive, Norfolk VA 23507
Student Efforts	Patient Contact: 100% Outpatient; 40 hrs/wk in ER; 5 hrs/wk conference/lecture; 5 hrs/wk study/reading time
Evaluation	Exam grade, case conference presentation, patient/procedure logbook, clinical performance, and number of shifts.
Other	Students will be assigned to a resident and are expected to work the shifts of the assigned resident. Any schedule changes must be approved in advance by the chief resident.

Site Compliance Requirements

Hospital 1	Sentara, all hospitals in Hampton Roads, including Bell Harbor
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Course Information

Course Director	LCDR Daphne Morrison-Ponce, MD	Course Categories	AI, AMB, CC
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	October - May	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 or 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	3 per block	Night Call	Yes

Course Description

Rotating medical students spend 4 weeks in our department, and function in a capacity similar to that of the typical sub-intern. Students evaluate patients autonomously and make presentations to any one of 17 individual emergency medicine attending physicians whose cumulative background encompasses over 9 separate residency training programs throughout the nation. They participate in the resuscitation of critically ill or injured patients, and perform necessary procedures when indicated. Didactically, the student participates in the accredited weekly emergency medicine residency conferences, daily intern lectures, and patient rounds. Additionally, students benefit from a specialized medical student curriculum which covers key concepts in the field. They may also participate in a monthly animal lab in which ATLS procedures are taught and they are invited to attend monthly journal club sessions. Students also benefit from their interaction with interns and residents of varied levels of training and specialty interests. A particularly unique feature of our rotation is the exposure to emergencies presenting primarily in the military setting and emergency physician use of ultrasound. Naval Medical Center Portsmouth is a large 450 bed teaching hospital which has 14 specialty residencies/fellowships. The annual patient census in the emergency department approaches 70,000 visits. Approximately 30-40% of these pertain to the pediatric population. The admission rate from the emergency department is approximately 12%. The ratio of medical/surgical presenting complaints is roughly 3/2. This high volume provides a rich environment for exposure to the entities commonly encountered in emergency medicine. The recently renovated and upgraded emergency department has 13 general beds, 5 specialty beds, and 2 resuscitation beds.

Course Objectives

1. To introduce the student to the specialty of emergency medicine, and to afford the opportunity to participate to the fullest in its practice.
2. To assist the student in developing a thorough, systematic approach to the rapid recognition, evaluation, treatment, and disposition of the critically ill or injured patient. Additionally, to refine student skills in case presentation.
3. To teach the student how to prioritize patient care in terms of risk to life and limb as well as to introduce the student to self-management of multiple patients in a busy emergency department.
4. To set forth and teach a defined body of knowledge and skills which constitute the cornerstone of the specialty of emergency medicine.
5. To define acceptable standards of treatment for frequently encountered problems in the emergency department setting.
6. To involve the student in the regularly scheduled activities corresponding to the active established residency curriculum.
7. To introduce the student to the field of pre-hospital care, toxicology, disaster management, and environmental medicine – areas which fall into the special expertise of the emergency physician.
8. To involve the student in special procedures such as suturing, I and D, slit lamp examination, lumbar puncture, gastric lavage, Foley catheter placement, fracture identification and immobilization techniques, acute resuscitation procedures, venous access and CVP line placement, arterial puncture, airway management procedures, and many others.
9. To maintain sufficient flexibility to meet the personal needs of the trainee, to afford time for reading and individualized study, and to provide the necessary time for rest and relaxation.
10. Ultimately, to allow the student to function as a team-member in our department, improving the quality of care to our patients.

Course Specifics

Report First Day	Graduate Medical Education Office, Bldg, #3, 3rd floor at 0800 a.m. on first day of rotation for check-in documents.
Student Efforts	Patient Contact: 100% outpatient; 40 hrs/wk in the ER; 6.5 hrs/wk of conference/lecture; 5 hrs/wk of study/reading time.
Evaluation	A brief 50-question examination based on the assigned readings is administered at the end of the rotation. The test is designed to be educational. Evaluations are primarily based on input from staff and resident physicians familiar with the performance of the student and ultimately collated by the medical student coordinator. Plenty of time-off is scheduled to allow the student time to complete the assignments. Additional participation in animal lab and journal club activities is optional.

Site Compliance Requirements

Hospital 1	Naval Medical Center Portsmouth
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Course Information

Course Director	Don Byars, MD RDMS RDCS	Course Categories	Elective, Scholarly Activity
Location	Sentara, Norfolk General Hospital	Main Contact	Jeannine Ricker
Period Offered	Continuously	Contact Email	rickerje@evms.edu
Duration	Longitudinal	Contact Phone #	757-388-3397
Restrictions	n/a	Pre-Requisites	Interview
# of Students	submit a written request for this elective	Night Call	Yes

Course Description

The purpose of this course is to teach the fundamentals of emergency ultrasound, both didactic knowledge and bedside image acquisition, longitudinally over the fourth year of medical school for selected students pursuing a career in Emergency Medicine. During the year, M4 students will have the opportunity to work with Emergency Medicine physicians proficient in emergency ultrasound at Sentara Norfolk General Hospital. The student will become proficient in the core applications of bedside ultrasound in Emergency Medicine. The M4 student will also serve as an education resource to assist in teaching their underclassmen.

Course Objectives

Objectives:

1. To learn the fundamental physics and knobology of point of care emergency ultrasound
2. To learn how to apply goal directed emergency ultrasound across the breadth of pathology in the Emergency Department.
3. How to specifically apply organized but focused emergency ultrasound at the bedside of a critically ill or injured patient.
4. To learn to properly interpret emergency ultrasound images from the most common applications.
5. To assist in ultrasound education of other medical students.

Enabling Objectives:

By the end of this rotation the student should be able to:

1. Perform a Focused Assessment with Sonography in Trauma (FAST) examination.
2. Place a Central Venous Catheter using ultrasound guidance in the simulation laboratory.
3. Perform a right upper quadrant ultrasound.
4. Perform an abdominal focused cardiac ultrasound.
5. Perform an abdominal aortic ultrasound
6. Perform a pelvic ultrasound in a female in early pregnancy.
7. Perform a limited renal ultrasound.
8. Use ultrasound to aid guidance in invasive procedures.

Course Specifics

Report First Day	Raleigh Building, Room 304, Sentara Norfolk General Hospital
Student Efforts	Patient Contact 50% Outpatient averaged at 4 hours per month; Didactics 50%: Ultrasound related conferences and other training averaged at 4 hours per month.
Evaluation	The final grade of Honors, Pass or Fail will be based directly upon the student's level of engagement, performance of bedside ultrasounds in the clinical space and simulation lab over the course of the year, and successful completion of the optional Honors Ultrasound project. Pass Criteria: Log 160 total hours in the "Hours Bank" over the course of the year; Perform 50 documented ultrasounds over the course of the year. Honors Criteria: Meet Pass Criteria; Perform an additional 100 documented ultrasounds, for a total of 150 scans over the year. Mastery Criteria: Meet Honors Criteria and perform a total of 500 scans over the year; Pass the ARDMS SPI Exam; optionally, obtain a specialty certification from the ARDMS (abdomen, cardiac, OB, etc)
Other	Prospective students must submit a written request to be selected for the Honors Ultrasound Program and will only be selected after a brief interview. Hours Bank: We expect each student to provide 160 hours of engagement during the course of the year since this rotation counts as a full four week block (4 weeks x 40 hours = 160 hours). Given the hectic and variable nature of the fourth year of medical school with away rotations and residency interviews, the faculty realize that students will not be able to participate in all course educational offerings. Examples of activities that may be logged into the hours bank include, but are not limited to: Facilitating M1/M2 Ultrasound Education Sessions (counts 2 hours for every 1 hour engaged); Attending ultrasound didactics; Attending ultrasound rounds in the Emergency Department; Completing SonoSIM modules

Site Compliance Requirements

Hospital 1 | Sentara, Norfolk General

EVMS Family and Community Medicine emphasizes the family as a unit and offers comprehensive medical care for all age groups. Patients are seen at the department's two family medicine centers – Ghent Family Medicine and Portsmouth Family Medicine. Both sites use an electronic health record system (EHR). We take pride in building positive, supportive relationships with our patients and their families. The department places a strong emphasis on community and preventive medicine and evidence-based medicine for highest value of the health care dollar, in an effort to address the needs of the residents of Hampton Roads. Our commitment to health promotion and disease prevention is also reflected in our staff. Our physicians train resident physicians and students in interprofessional education at EVMS as an extension of our practice. This integration enhances our care and provides an academic advantage unique to our group.

Both of our practices were among the first in the region to receive a Level 3 Certification (highest level) as a Patient-centered Medical Home from the National Committee for Quality Assurance. The strength in our unified practices as physicians and teachers shows in the care we provide for our patients, as well as providing our residents and students with a nurturing and active learning environment.

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/family_community_medicine/

Course Information

Course Director	Benjamin Eng, MD	Course Categories	AI
Location	Ghent Family Medicine	Main Contact	Amanda Bush
Period Offered	Continuously	Contact Email	bushaa@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7460
Restrictions	Blocks 1 – 4 for students pursuing Family Medicine Residency Training	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

The student will spend 4 weeks with the Ghent Family Medicine inpatient team at Sentara Norfolk General Hospital. Inpatient service only admits patients from the Ghent Family Practice. The student’s responsibilities are commensurate to those of an intern on the family medicine service. These responsibilities include daily rounds, management of patients, evaluations of patients in the emergency department, admissions and discharges through EMR. For continuity, there will be opportunities to follow the discharged patient(s) during follow-up at the Ghent ambulatory center. There will also be opportunities to take night call with the family medicine intern. All activities will be supervised by a senior resident and the rounding faculty.

The acting intern will attend didactic lectures one afternoon per week, and will spend one afternoon per week in the outpatient setting seeing patients.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Perform at the level of a first year resident.
2. Follow and have primary responsibility for the care of the patients they admit (from admission through discharge).
3. Work with hospital healthcare team to transition patient safely back to outpatient setting.
4. Demonstrate the ability to order appropriate diagnostic studies and interpret their results.
5. Perform procedures, when indicated, on their patients (under direct supervision of attending/resident).
6. Demonstrate a working knowledge of the psychosocial and biomedical aspects of common outpatient medical problems for which patients are commonly admitted to a family medicine service.
7. Demonstrate the ability to assess the psychosocial aspects of a patient’s history and the effects they might have on the health of that patient.
8. Become familiar with practice-based learning – i.e. Cost effective medicine
9. Become familiar with community-based learning – i.e. Communication with other care providers and consultants.

Course Specifics

Report First Day	Prior to the first day of the rotation, student is contacted and provided the meeting location of the inpatient team.
Student Efforts	
Evaluation	The student’s final grade will be based on performances as evaluated by attending and resident physicians. Also included will be attendance at the didactic sessions and a written H&P on one of the patients that the student admits while on the rotation.
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General
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Course Information

Course Director	Bruce Britton, MD	Course Categories	AI
Location	Portsmouth Family Medicine	Main Contact	Amanda Bush
Period Offered	Continuously	Contact Email	bushaa@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7460
Restrictions	Blocks 1 – 4 for students pursuing Family Medicine Residency Training	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

The student will spend 4 weeks at Portsmouth Family Medicine. The student’s responsibilities will be comparable to those of an intern on the family medicine service. They will be required to take night call with the family medicine intern, do admission histories and physicals and follow the patients admitted to the service. They will also attend didactic lectures at the appropriate site. The student will spend one afternoon per week in the office seeing patients with hospital residents to provide continuity for discharged patients.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Perform at the level of a first year resident.
2. Follow and have primary responsibility for the care of the patients they admit (from admission through discharge).
3. Work with hospital healthcare team to transition patient safely back to outpatient setting.
4. Demonstrate the ability to order appropriate diagnostic studies and interpret their results.
5. Perform procedures, when indicated, on their patients (under direct supervision of attending/resident).
6. Demonstrate a working knowledge of the psychosocial and biomedical aspects of common outpatient medical problems for which patients are commonly admitted to a family medicine service.
7. Demonstrate the ability to assess the psychosocial aspects of a patient’s history and the effects they might have on the health of that patient.
8. Become familiar with practice-based learning – i.e. Cost effective medicine
9. Become familiar with community-based learning – i.e. Communication with other care providers and consultants

Course Specifics

Report First Day	Nicole Thompson at Portsmouth Family Medicine, 757-606-1145. Prior to the first day of the rotation, the student is contacted and provided the meeting location of the inpatient team.
Student Efforts	
Evaluation	The student’s final grade will be based on performances as evaluated by attending and resident physicians. Also included will be attendance at the didactic sessions and a written H&P on one of the patients that the student admits while on the rotation.
Other	N/A

Site Compliance Requirements

Hospital 1	Bon Secours, Maryview Medical Center
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Course Information

Course Director	Benjamin Eng, MD	Course Categories	AMB
Location	Ghent Family Medicine	Main Contact	Amanda Bush
Period Offered	Continuously	Contact Email	bushaa@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7460
Restrictions	Blocks 1 – 4 for students pursuing Family Medicine Residency Training	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will spend four weeks providing patient care at the Ghent Family Medicine ambulatory center under the supervision of attending physicians and senior residents. The student will have the opportunity to provide “point of care” services such as cryotherapy and joint injections. Participation in the center’s minor surgery, colposcopy and other specialty clinics can be arranged based on interest and availability.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Appreciate the scope of ambulatory family practice.
2. Develop his/her clinical skills in managing common outpatient problems.
3. Develop his/her understanding of practicing in an environment which interfaces with managed care systems.

Course Specifics

Report First Day	Contact Amanda Bush at Ghent Family Medicine, 757- 446-7460
Student Efforts	
Evaluation	Student will receive a composite evaluation based on assessments completed by faculty and residents; 100% observation.
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Bruce Britton, MD	Course Categories	AMB
Location	Portsmouth Family Medicine	Main Contact	Amanda Bush
Period Offered	Continuously	Contact Email	bushaa@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7460
Restrictions	Blocks 1 – 4 for students pursuing Family Medicine Residency Training	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will spend four weeks in their rotations seeing patients with their preceptor. The student will provide care for patients under supervision and when appropriate participate in educational activities.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Appreciate the scope of ambulatory family practice.
2. Develop his/her clinical skills in managing common outpatient problems.
3. Develop his/her understanding of practicing in an environment which interfaces with managed care systems.

Course Specifics

Report First Day	Nicole Thompson at Portsmouth Family Medicine, call 757-606-1145
Student Efforts	
Evaluation	Student will receive a composite evaluation based on assessments completed by faculty and residents; 100% observation.
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Bruce Britton, MD	Course Categories	AMB
Location	Community Family Doctor's Office who holds an EVMS Community Faculty appointment	Main Contact	Amanda Bush
Period Offered	Continuously	Contact Email	bushaa@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7460
Restrictions	n/a	Pre-Requisites	None
# of Students	3 per block	Night Call	No

Course Description

Through reading and direct observation of family physician preceptors, the student will develop an accurate understanding of family medicine as a discipline and potential career choice.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Define the distinguishing characteristics of primary care medical specialties.
2. Define the unique role of family physicians in providing continuous comprehensive care to persons within the context of the family and community.
3. State the content of family medicine.
4. State the unique features of family medicine residency training and requirements for re-certification which prepare family physicians for their unique generalist role.
5. Recognize varying levels of physician involvement with families and state the advantages of a family orientation in health care.
6. Use accurate national sources of data concerning the demand for family physicians, scope of practice, salary ranges, mal-practice insurance costs, and flexibility of practice options.
7. Discuss strategies for maintaining personal and family "wellness" during medical training and practice.
8. Use the resources of the EVMS Department of Family and Community Medicine to meet ongoing educational and career guidance needs in medical school.

Course Specifics

Report First Day	Family Physician's Office with a physician who holds an EVMS Community Faculty appointment
Student Efforts	Patient Contact: 100% Outpatient; 1 hr/wk study/reading time; 4 hrs/wk faculty contact time
Evaluation	100% clinical observation, OR the student may take this as a non-credit elective with a letter documenting their participation sent to their academic file in the Dean's Office.
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Chantal D. Lewis, MD	Course Categories	AMB
Location	5999 Burke Commons Road, Burke VA 22015	Main Contact	Jonathan Holland
Period Offered	September, April	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Through reading and direct observation of Family Physician preceptors. The student will develop an accurate understanding of family medicine as a discipline and potential career choice.

Course Objectives

Clinical Skills:

- Take an appropriate, accurate and systematic history.
- Demonstrate appropriate communication and psychosocial skills.
- Demonstrate ability to skillfully perform physical examination appropriate to patient's history.
- Perform ancillary tasks necessary for patient care, including interpreting simpler X-rays, ECGs and interpreting common laboratory data.
- Demonstrate ability to recommend basic prescriptions.
- Formulate oral presentations and medical write-ups that are complete, accurate and organized.

Define the unique role of family physicians in providing continuous comprehensive care to persons within the context of family and community:

- Apply basic ethical principles to problems encountered in a family medicine practice.
- Apply preventive health principles and demonstrate skills needed to educate the patient on preventive health and its importance.
- Understand the role of the office team.
- Understand the referral process from a family medicine perspective.

Course Specifics

Report First Day	5999 Burke Commons Road, Burke, VA 22015. Please send email one week prior to start date to verify
Student Efforts	100% outpatient
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Ayse Turgut, MD	Course Categories	AMB, Elective
Location	201 N. Washington Street, Falls Church VA 22046	Main Contact	Jonathan Holland
Period Offered	Continuously	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Through reading and direct observation of Family Physician preceptors. The student will develop an accurate understanding of family medicine as a discipline and potential career choice.

Course Objectives

Clinical Skills:

- Take an appropriate, accurate and systematic history.
- Demonstrate appropriate communication and psychosocial skills.
- Demonstrate ability to skillfully perform physical examination appropriate to patient's history.
- Perform ancillary tasks necessary for patient care, including interpreting simpler X-rays, ECGs and interpreting common laboratory data.
- Demonstrate ability to recommend basic prescriptions.
- Formulate oral presentations and medical write-ups that are complete, accurate and organized.

Define the unique role of family physicians in providing continuous comprehensive care to persons within the context of family and community:

- Apply basic ethical principles to problems encountered in a family medicine practice.
- Apply preventive health principles and demonstrate skills needed to educate the patient on preventive health and its importance.
- Understand the role of the office team.
- Understand the referral process from a family medicine perspective.

Course Specifics

Report First Day	Falls Church Kaiser/Family Practice Department, 3rd floor, south
Student Efforts	100% outpatient
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Health System | Kaiser

Course Information

Course Director	Bruce Britton, MD	Course Categories	AMB
Location	Rural Community with Physician who holds an EVMS Community Faculty Appointment	Main Contact	Amanda Bush
Period Offered	Continuously	Contact Email	bushaa@evms.edu
Duration	2 or 4 weeks	Contact Phone #	757-446-7460
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	Yes

Course Description

This elective is designed to provide an in-depth experience in community/rural medicine. Student will work with a family physician in a rural primary care office. Travel may be necessary to Franklin/Courtland, VA, Western Tidewater, the Eastern Shore, or other sites.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Identify special health conditions within the rural populations.
2. Identify the nutritional factors in rural population which contribute to their health problems.
3. Recognize the environment, family situations, and social structures as important contributions to the health status of an individual.
4. Describe the contribution poverty plays in the distribution of infections and chronic diseases, especially among rural populations.
5. Demonstrate health education skills.

Course Specifics

Report First Day	Family Physician who holds an EVMS Community Faculty appointment
Student Efforts	Patient Contact: 80% Outpatient; 10% Inpatient, 10% study/reading time
Evaluation	The student's final grade will be based on performances and completion of course objectives as evaluated by the assigned preceptor.
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Richard Bikowski, MD	Course Categories	Elective, Scholarly Activity
Location	Various	Main Contact	Amanda Bush
Period Offered	August - May	Contact Email	bushaa@evms.edu
Duration	Longitudinal	Contact Phone #	757-446-7460
Restrictions	n/a	Pre-Requisites	Meeting with Course Director
# of Students	15	Night Call	No

Course Description

The student will longitudinally over academic year work with Dr. Richard Bikowski, Director of EVMS HS Quality Improvement, and other faculty for approximately 8 sessions starting in August and continuing once a month. The student will work with the Quality Improvement team in various aspects of EVMS QI activities that may include practice based research and implementation, best practices research and implementation, disease registry development and implementation, and development of dissemination of knowledge programs.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Understand basic principles of Continuous Quality Improvement in a Healthcare organization.
2. Understand basic process improvement methodologies and techniques utilized in Quality Improvement and Institutional Review Board.
3. Understand basic organizational structures that foster integration of Quality Improvement into Healthcare organizations.
4. Course objectives may be tailored to meet their specific needs in conjunction with Dr. Bikowski.

Course Specifics

Report First Day	Dr. Richard Bikowski
Student Efforts	
Evaluation	The student's final grade will be based on performance as evaluated by Director and the QI team and on student's research and written QI project. Amount of credit given to student will be based on time, effort and performance as determined by Elective Director.
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Angelica Perry, DO	Course Categories	AMB
Location	Eastern Shore of Virginia and Tangier Island	Main Contact	Amanda Bush
Period Offered	Call to Confirm	Contact Email	bushaa@evms.edu
Duration	2 - 4 weeks	Contact Phone #	757-446-7460
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	Yes

Course Description

This elective is designed to provide an in-depth experience in frontier/rural medicine, experience with environmental and occupational health, inter-professional team based care, and health information technology (HIT) that ridges care for frontier populations. Student will work with a family physician in rural primary care office and in the Frontier Community Clinic (<http://tangierclinic.org/>) with Physician Assistant Inez Pruitt. Travel will be necessary to the Eastern Shore and Tangier Island. Students should be prepared to stay in housing/dorm provided. Students will need to undergo rotation specific training for Riverside Health Systems prior to clinical experiences. Students should be prepared to fly to Tangier Island with physician supervisor or take the ferry.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Identify special health conditions within the eastern shore and Tangier Island populations. Student will review information on unique population needs of Tangier Island residents provided by supervising physician.
2. Identify the unique barriers to health care in frontier populations and the systems and team required to bridge those barriers including physician extenders and telemedicine. Student will work with inter-professional team, utilize HIT to communicate with supervising physician.
3. Recognize the occupational, environmental, family systems, and social structures as important contributions to the health status of an individual.
4. Work with and communicate with Rural Health Department to better understand links with public health services. Student will communicate with Director of Eastern Shore Rural health regarding public health initiatives to improve health of Tangier Island and Easter Shore Virginia.
5. Demonstrate health education skills that are sensitive to unique culture of Tangier Island residents.

Course Specifics

Report First Day	Angelica Perry, DO
Student Efforts	Patient Contact: 90% Outpatient; 10% study/reading time
Evaluation	Upon completion of elective objectives, the student's final grade will be completed by supervising physician and based on observations and evaluations from PA and Medical Director of the Eastern Shore Health Department.
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Bruce Britton, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Amanda Bush
Period Offered	March	Contact Email	bushaa@evms.edu
Duration	2 weeks, 80 hours	Contact Phone #	757-446-7460
Restrictions	n/a	Pre-Requisites	None
# of Students	10	Night Call	No

Course Description

This two week course will provide background in philosophy and application of philosophical principles as they apply in medical ethics decision making. It will be a combination of on line course work, didactics, small group meetings, ethics conference and experiences in clinical settings.

1. On line course with testing will include the completion of Ethics in Medicine course and Cultural Health Literacy by the end of the two week course.
2. Didactics will be 5-6 hour long didactic lectures provided by Jack Sommers, Ph.D., on Monday, Wednesday and Friday's of the two weeks. Students should have prepared by completion of core reading prior to didactics.
3. Following didactic, there will be 1 - 2 hour clinical case discussions that highlight lessons learned from readings with case based small group problem solving (2 groups of students facilitated by Dr. Sommers and MD faculty facilitators. Evaluations will be through faculty observed preparation and participation and through team written evaluations of case done during that problem learning session. Each team will present to the other for discussion facilitated by faculty. (didactic small group 18 hours)
4. Clinical exposures: students will participate in groups at various ethics committee meetings as observers and participate as small groups with ethic consults at various campus partner hospitals, 20-30 hours. Evaluation will be based on small team written reports on one ethics clinical case and philosophic and ethical considerations.

The online certification coursework can be completed prior to the start of the course in order to include the certificates in your CV for interviews. These will count toward hours of course and are required to have been completed before able to receive credit for course.

- Ethics Training Certification: Ethics Training Certification (World Medical Association - 8 hours) <http://www.wma.net/en/70education/10onlinecourses/30ethics/>
- A Physician's Practical Guide to Culturally Competent Care (HHS- 9 hours) <https://ccm.thinkculturalhealth.hhs.gov/default.asp>

Course Objectives

1. Understand background and core philosophical themes behind medical ethics.
2. Understand how patient and population cultural values create a tension that must be balanced to achieve high level of ethical decision making.
3. Experience the application of the philosophical basis for medical ethics in clinical situations.
4. Be able to deconstruct clinical scenarios into core philosophical systems and ethical considerations to provide a rational medical ethics recommendation.
5. To observe group process of impact of philosophy and ethics as it impact health care systems.
6. Obtain recognition of study of philosophical and ethical principles in medicine.

Course Specifics

Report First Day	Contact Ms. Mathur two weeks prior to the start of the elective
Student Efforts	
Evaluation	<p>Knowledge: satisfactory completion of online course testing. 25%</p> <p>Skills: team based written assessments from group assignments problem based and clinically based case reviews; 50% core faculty assessed and graded for content, style research background.</p> <p>Attitudes & Behaviors: prepared, on-time with all assignments and placements, teamwork. Use professionalism standards from clerkships as basis. 25% community site assessed and based on didactic session observed behavior by faculty.</p>
Other	N/A

Site Compliance Requirements

Course Information

Course Director	John Snellings, MD	Course Categories	Elective
Location	EVMS Hofheimer Hall, Sentara Norfolk General Hospital, Ghent and Portsmouth Family Medicine	Main Contact	Amanda Bush
Period Offered	August - March	Contact Email	bushaa@evms.edu
Duration	Longitudinal - 4 weeks of elective credit	Contact Phone #	757-446-7460
Restrictions	n/a	Pre-Requisites	None
# of Students	1-15	Night Call	No

Course Description

Students will meet for initial course introduction and to form teams for developing and completing education or clinical interventions for enhancing cost-conscious medical care in ambulatory or inpatient care and/or interfaces of care (e.g., emergency departments). There are 8 total sessions held once a month starting in August. Thereafter students will prepare for 3 hour evening seminars held monthly between August and March, reviewing best practices in cost-conscious care, from the Choosing Wisely Initiative to principles of parsimony.

Teams will meet independently to design and carry out education or clinical interventions, while learning metrics for quality and cost of care.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Describe the basic cost drivers of medical care in the United States.
2. Demonstrate the influence of social determinants of health and their relationship to medical costs in the United States;
3. Analyze the impact of medical costs on the accessibility of medical care and health disparities in the United States.
4. Define the effects of diagnostic testing costs on the costs of medical care.
5. Describe how physicians can affect the costs of patient care.

Course Specifics

Report First Day	EVMS Hofheimer Hall, Room 223
Student Efforts	
Evaluation	Student will present their group projects before departmental faculty and other stakeholders who will evaluate the quality, degree of innovation and the effectiveness of the projects. Grading will be based on these outcomes as well as degree of student's contribution to the overall projects.
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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The Department of Internal Medicine is one of Eastern Virginia Medical School's most established academic departments, having been one of the founding graduate medical education training programs of the school when it was established in 1975.

Welcome to the Department of Medicine website at EVMS. We invite you to learn more about our outstanding education, patient care, and research programs. We strive for excellence in all three of these missions and we are proud of our achievements and wonderful faculty and residents. We strive to provide the highest quality of primary and subspecialty care for patients throughout the area. We train tomorrow's physicians in both the science and art of medicine with innovative programs. Our goal is also to provide outreach to meet the community needs to improve the quality of care and patient outcomes.

Each of our Internal Medicine Divisions can be explored at http://www.evms.edu/education/centers_institutes_departments/internal_medicine/

A VIDEO GLIMPSE INTO THE CHAIRMAN'S RESEARCH: JERRY L. NADLER, MD, FAHA, MACP

DEPARTMENT OF INTERNAL MEDICINE:

GENERAL INTERNAL MEDICINE

Course Information

Course Director	Mark Flemmer, MD	Course Categories	AI
Location	Sentara, Norfolk General Hospital	Main Contact	Kaitlyn Ray
Period Offered	Continuously	Contact Email	rayke@evms.edu
Duration	4 weeks	Contact Phone #	757-446-8425
Restrictions	Blocks 1 – 6 are open to students pursuing categorical Internal Medicine Residency only	Pre-Requisites	None
# of Students	4 per block	Night Call	Yes

Course Description

An advanced experience in general internal medicine, with the opportunity to select a subspecialty area. The student will function as an Acting Intern on the medical service.

Course Objectives

Intermediate Objectives:

1. To improve and advance the clinical skills.
2. To acquire the ability to reach a differential diagnosis and a relevant problem list at the end of a history and physical exam.
3. To acquire the ability to order relevant investigations.
4. To learn the indicators and complications of invasive procedures in Internal Medicine.
5. To learn the natural history (includes prognosis) of common disease.

Enabling Objectives:

By the end of the elective, the student should be able to:

1. Perform initial evaluation of the patient requiring admission to the hospital.
2. Develop differential diagnosis and institute management of common internal medicine problems.
3. Ability to interpret laboratory results.
4. Discuss progress and disposition as applied to a patient with a given disease.
5. Able to discuss clinical features on a pathophysiological basis.

Course Specifics

Report First Day	Sentara Norfolk General Hospital, EVMS classroom, 2nd floor (Near GICU), no later than 8AM
Student Efforts	Patient Contact: 100% Inpatient; 5 hrs/wk conferences/lectures; 20 hrs/wk faculty contact time
Evaluation	100% clinical observation. A student trying for honors or receiving a failure, are required to take an oral exam with Dr. Mark Flemmer
Other	During interview season please contact Ms. Ray via email once you are notified of an interview. Please keep in mind that you are only allowed 3 interview days during the rotation.

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Mary Yurachek, MD	Course Categories	AI
Location	Veteran's Affairs Medical Center, Hampton	Main Contact	Kaitlyn Ray
Period Offered	Continuously	Contact Email	rayke@evms.edu
Duration	4 weeks	Contact Phone #	757-446-8425
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

The purpose of this rotation is to provide the student an opportunity to function as an Acting Intern on the general medicine wards at the VA Medical Center. The student will admit patients, perform initial history and physical examinations, write all orders, discuss the case with an attending, make daily rounds with the attending physician and other members of the ward team and perform all necessary procedures. Skills to be obtained during this rotation include improved diagnostic techniques through history and physical examination and improved skills in therapy. Since continuity of care is essential to training, absences should be minimized during this elective.

Course Objectives

Intermediate Objectives:

1. To improve and advance the clinical skills.
2. To acquire the ability to reach a differential diagnosis and a relevant problem list at the end of a history and physical exam.
3. To acquire the ability to order relevant investigations.
4. To learn the indicators and complications of invasive procedures in Internal Medicine.
5. To learn the natural history (includes prognosis) of common disease.

Enabling Objectives:

By the end of the elective, the student should be able to:

1. Perform initial evaluation of the patient requiring admission to the hospital.
2. Develop differential diagnosis and institute management of common internal medicine problems.
3. Ability to interpret laboratory results.
4. Discuss progress and disposition as applied to a patient with a given disease.
5. Able to discuss clinical features on a pathophysiological basis.

Course Specifics

Report First Day	Medical Service Office, Building 110, Room D114, VA Medical Center
Student Efforts	Patient Contact: 100% Inpatient; 6 hrs/wk rounds, 3 hrs/wk conferences/lectures; study reading time as necessary; 10 hrs/wk faculty contact time.
Evaluation	100% clinical observation
Other	During interview season please contact Ms. Ray via email once you are notified of an interview. Please keep in mind that you are only allowed 3 interview days during the rotation.

Site Compliance Requirements

Hospital 1	Veteran's Affairs Medical Center, Hampton
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Course Information

Course Director	Robert Paschall, MD	Course Categories	AMB
Location	Riverside, Shore Memorial Hospital	Main Contact	Robert Paschall, MD
Period Offered	Continuously	Contact Email	
Duration	4 weeks	Contact Phone #	757-414-8000 or 757-414-6600
Restrictions	n/a	Pre-Requisites	None
# of Students	1-3 per block	Night Call	Yes

Course Description

This program offers a perspective in internal medicine and its subspecialties available in a rural, referral hospital. Student responsibility is commensurate with interest and capability. The student will be expected to act as a house officer. Students from MCV rotate regularly through this hospital. A private suite of rooms is available, with meals and laundry provided. The expense of room and board are borne by the hospital.

Course Objectives

1. Learn how internal medicine and its subspecialties can be applied in a small community hospital.
2. Contact with a private practitioner - one-on-one
3. Function as a house officer.

Course Specifics

Report First Day	Contact at least two weeks prior to start of elective
Student Efforts	Patient Contact: 40% Inpatient, 60% Outpatient; 10 hrs/wk rounds; 2 hr/wk conferences/lectures; 10 hrs/wk study/reading time; 60 hrs/wk faculty contact time and ward work.
Evaluation	50% oral exam, 50% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Riverside, Shore Memorial Hospital, Nassawadox Virginia

Course Information

Course Director	Kusama K. Nanduri, MD	Course Categories	AMB, Elective
Location	12255 Fair Lakes Parkway, Fairfax VA 22033	Main Contact	Jonathan Holland
Period Offered	November	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Course Objectives

At the end of the elective, the medical student should be able to:

1. Evaluate how internal medicine and its subspecialties can be applied in a practical setting.
2. Execute an appropriate, accurate and systematic history.
3. Demonstrate appropriate communication and psychosocial skills.
4. Demonstrate ability to skillfully perform physical examination appropriate to patient's history.
5. Develop differential diagnosis and institute management of common internal medicine problems.
6. Perform initial evaluation of the patient requiring admission to the hospital.
7. Interpret laboratory results, simple X-rays, ECG and demonstrate knowledge of basic prescriptions appropriate for treatment.
8. Discuss progress and disposition as applied to a patient with a given disease.
9. Formulate oral presentations and medical write-ups that are complete, accurate and organized.

Course Specifics

Report First Day	Fair Oaks Medical Center, 12255 Fair Lakes Pkwy, Fairfax, VA 22033. Please email one week beforehand.
Student Efforts	100% outpatient
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Jason M. Rashkin, MD	Course Categories	AMB, Elective
Location	8008 Westpark Drive, McLean VA 22102	Main Contact	Jonathan Holland
Period Offered	Contact for availability	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Course Objectives

At the end of the elective, the medical student should be able to:

1. Evaluate how internal medicine and its subspecialties can be applied in a practical setting.
2. Execute an appropriate, accurate and systematic history.
3. Demonstrate appropriate communication and psychosocial skills.
4. Demonstrate ability to skillfully perform physical examination appropriate to patient's history.
5. Develop differential diagnosis and institute management of common internal medicine problems.
6. Perform initial evaluation of the patient requiring admission to the hospital.
7. Interpret laboratory results, simple X-rays, ECG and demonstrate knowledge of basic prescriptions appropriate for treatment.
8. Discuss progress and disposition as applied to a patient with a given disease.
9. Formulate oral presentations and medical write-ups that are complete, accurate and organized.

Course Specifics

Report First Day	Tysons Corner Medical Center, 8008 Westpark Dr, McLean, VA 22102. Please email beforehand for details.
Student Efforts	100% outpatient
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Seraphine A. Soosaimanickam, MD	Course Categories	AMB, Elective
Location	10701 Rosemary Drive, Manassas VA 20109	Main Contact	Jonathan Holland
Period Offered	October	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Course Objectives

At the end of the elective, the medical student should be able to:

1. Evaluate how internal medicine and its subspecialties can be applied in a practical setting.
2. Execute an appropriate, accurate and systematic history.
3. Demonstrate appropriate communication and psychosocial skills.
4. Demonstrate ability to skillfully perform physical examination appropriate to patient's history.
5. Develop differential diagnosis and institute management of common internal medicine problems.
6. Perform initial evaluation of the patient requiring admission to the hospital.
7. Interpret laboratory results, simple X-rays, ECG and demonstrate knowledge of basic prescriptions appropriate for treatment.
8. Discuss progress and disposition as applied to a patient with a given disease.
9. Formulate oral presentations and medical write-ups that are complete, accurate and organized.

Course Specifics

Report First Day	10701 Rosemary Drive, Manassas VA 20109 Please email beforehand for details.
Student Efforts	100% outpatient
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Jonas P. Wiltz, MD	Course Categories	AMB, Elective
Location	6501 Loisdale Court, Springfield VA 22150	Main Contact	Jonathan Holland
Period Offered	November, January-February	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Course Objectives

At the end of the elective, the medical student should be able to:

1. Evaluate how internal medicine and its subspecialties can be applied in a practical setting.
2. Execute an appropriate, accurate and systematic history.
3. Demonstrate appropriate communication and psychosocial skills.
4. Demonstrate ability to skillfully perform physical examination appropriate to patient's history.
5. Develop differential diagnosis and institute management of common internal medicine problems.
6. Perform initial evaluation of the patient requiring admission to the hospital.
7. Interpret laboratory results, simple X-rays, ECG and demonstrate knowledge of basic prescriptions appropriate for treatment.
8. Discuss progress and disposition as applied to a patient with a given disease.
9. Formulate oral presentations and medical write-ups that are complete, accurate and organized.

Course Specifics

Report First Day	Springfield Medical Center, 6501 Loisdale Ct, Springfield, VA 22150 Please email beforehand for details.
Student Efforts	100% outpatient
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Michael B. Halle, MD	Course Categories	AMB
Location	6501 Loisdale Court, Springfield VA 22150	Main Contact	Jonathan Holland
Period Offered	October-February	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

An advanced experience in general internal medicine, with the opportunity to select a subspecialty area.

Course Objectives

1. Learn how internal medicine and its subspecialties can be applied in a practical setting.
2. Be able to take an appropriate, accurate and systematic history.
3. Demonstrate appropriate communication and psychosocial skills.
4. Demonstrate ability to skillfully perform physical examination appropriate to patient’s history.
5. Develop differential diagnosis and institute management of common internal medicine problems.
6. Perform initial evaluation of the patient requiring admission to the hospital.
7. Ability to interpret laboratory results, simple X-rays, ECG and demonstrate knowledge of basic prescriptions appropriate for treatment.
8. Discuss progress and disposition as applied to a patient with a given disease.
9. Formulate oral presentations and medical write-ups that are complete, accurate and organized.

Course Specifics

Report First Day	Springfield Medical Center, 6501 Loisdale Ct, Springfield, VA 22150 Please email beforehand for details.
Student Efforts	100% outpatient
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

DEPARTMENT OF INTERNAL MEDICINE:

CARDIOLOGY

Course Information

Course Director	Paul Micale, MD	Course Categories	Elective
Location	Riverside Regional Medical Center, Newport News	Main Contact	Amy Tatum
Period Offered	Continuously	Contact Email	amy.tatum@rivhs.com
Duration	4 weeks	Contact Phone #	757-873-0360
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	Optional

Course Description

The student is offered an opportunity to participate in clinical cardiology. This exposure can be done in one of two ways: 1) He/she can work in an active 14-bed Coronary Care Unit with a large turnover of patients and have the opportunity to evaluate these patients under supervision. Clinical evaluation as well as interpretation of arrhythmias and serial electro-cardiograms are stressed during this period. There will be daily teaching rounds with a staff Cardiologist. 2) A student may also have an opportunity to participate in evaluating cardiovascular problems in consultation with a staff Cardiologist. An opportunity to discuss each of these problems in detail is offered. Bedside clinical evaluation and interpretation of electrocardiograms and chest roentgenology is stressed in this area. There is also an opportunity for exposure to other non-invasive procedures such as echocardiography, graded exercise electrocardiography, vectorcardiography and ambulatory 24-hour monitoring. Emphasis in one of these areas or in a mixture of both can be accomplished to the student's desire.

Course Objectives

1. Cardiac physical exam.
2. Consultative evaluation of patients with cardiac problems.
3. General understanding of approach in management of patients.
4. Recognition and management of basic arrhythmia.
5. Indications for pacemaker therapy.
6. Indications for cardiac surgery.
7. Indications for percutaneous balloon coronary angioplasty.
8. Indications for medical management in cardiac disease.
9. General understanding of techniques of exercise EKG, radioisotope studies, echocardiogram.
10. Basic EKG interpretation.

Course Specifics

Report First Day	Riverside Hospital, Newport News, Department of Cardiology – Amy Tatum
Student Efforts	Patient Contact: 100% Inpatient; 10 hrs/wk rounds; 5 hrs/wk conference/lectures; 5 hrs/wk study/reading time; 15-20 hrs/wk faculty contact time
Evaluation	10 % oral exam; 90% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1

Riverside Regional Medical Center

Course Information

Course Director	Joseph Sposato, MD	Course Categories	AMB
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description

The clinical clerk will work closely with the staff cardiologist in an outpatient clinical setting. The vagaries of the cardiovascular history will be stressed. The clerk will have ample opportunity to hone cardiovascular physical examination skills. Individual instruction in ECG interpretation will be provided. The clerk will gain carefully supervised experience in treadmill testing, echocardiography, Holter monitoring, and pacemaker follow-up. Exposure to cardiac catheterization will be available.

Course Objectives

1. Take a detailed cardiovascular history, perform a good cardiovascular physical examination, order appropriate tests, and correlate these into a logical diagnosis and plan of management.
2. Detect symptoms and physical findings of congestive heart failure, hypertension, ischemic valvular heart diseases.
3. Understand the theory and interpretation of EKG scalar electrocardiography.
4. Recognize mitral valvular abnormalities, chamber enlargement, and ventricular overload on the echocardiogram.
5. Understand cardiac hemodynamics and be able to correlate these events with cardiac symptoms, physical findings and the electrocardiogram.
6. Understand the basic pharmacology, including indications, contraindications, and dose of common cardiac drugs, including digitalis, antihypertensive, and antiarrhythmic drugs.
7. Recognize and diagnose chamber enlargement, ST-segment abnormalities, arrhythmias, conduction defects and digitalis toxicity on the electrocardiogram.
8. Recognize common problems encountered inpatients with permanent pacemakers.
9. Have an understanding of problems involved in ambulatory monitoring.

Course Specifics

Report First Day	Graduate Medical Education Office, BLDG 3, 3rd Floor at 0800 on first day of rotation for check-in documents.
Student Efforts	Patient Contact: 5% Inpatient, 95% Outpatient; 3-5 hrs/wk rounds; 6 hrs/wk conferences/lectures; 20 hrs/wk study/reading time; 40 hrs/wk faculty contact time
Evaluation	5% oral exam; 95% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1

Naval Medical Center Portsmouth

Course Information

Course Director	Jay Venkatesan, MD	Course Categories	Elective
Location	Bon Secours, Maryview Medical Center Sentara, Obici Hospital and Norfolk General	Main Contact	Jay Venkatesan, MD
Period Offered	Continuously	Contact Email	venky583@gmail.com
Duration	4 weeks	Contact Phone #	757-238-4088 Page
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will work side by side with the cardiologist and staff in both an inpatient and outpatient setting, seeing a wide variety of disease states in cardiovascular medicine. The student will have the opportunity to improve their exposure to patients with cardiac disease, and they will be an active participant in the evaluation, assessment, management and disposition of their disease states. Individual instruction in the field of general cardiology, history and physical examinations, interventional cardiology, and outpatient testing will be done. The student will be exposed to a mix of all aspects of a cardiology practice.

Course Objectives

1. Perform a detailed cardiovascular history and physical, determine appropriate ancillary testing, and correlate information to formulate a differential diagnosis, and ultimately render a diagnosis and treatment plan.
2. Detect symptoms and physical exam findings in diseases such as coronary heart disease, congestive heart failure, hypertension, valvular disease.
3. Recognize abnormalities and interpret electrocardiograms of cardiac patients with all types of disease states.
4. Identify the common cardiovascular medications and be able to describe pharmacology, indications, contraindications and side effects of the most common cardiovascular drugs.
5. Identify common anatomical structures and describe the most common abnormalities seen by cardiac catheterization.
6. Describe the basic processes involved in heart catheterization, and identify the most common interventions performed.
7. Describe the most common findings in ambulatory monitoring of cardiovascular patients and the treatment plans.
8. Identify the most common factors and challenges in outpatient management of cardiovascular disease.

Course Specifics

Report First Day	Meet on Mondays at Maryview Medical Center at 8am. Contact physician by page (757-238-4088)
Student Efforts	Patient contact 60% inpatient, 40% outpatient. 5 days per week with mixture of office patients seen at both Portsmouth and Suffolk offices. 5 days/ week, 40 hours/week contact time.
Evaluation	5% Oral examination, 95% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1	Bon Secours, Maryview Medical Center
Hospital 2	Sentara, Obici Hospital
Hospital 3	Sentara, Norfolk General Hospital

Course Information

Course Director	Ronald McKechnie, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Mary Bennett
Period Offered	Continuously	Contact Email	
Duration	4 or 6 weeks	Contact Phone #	757-419-3001
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Exposure to all areas of non-invasive and invasive cardiac procedures. Cardiology, including daily inpatient service exposure, consultative cardiology, cardiac transplantation, and electro-physiology.

Course Objectives

1. Take a detailed cardiovascular history, perform a good cardiovascular physical examination, order appropriate tests, and correlate these into a logical diagnosis and plan of management.
2. Detect symptoms and physical findings of congestive heart failure, hypertension, ischemic and valvular heart diseases.
3. Recognize and diagnose chamber enlargement, ST-segment abnormalities, arrhythmias, conduction defects and digitalis toxicity on the electrocardiogram.
4. Recognize enlargement of great vessels and heart chambers, and signs of pulmonary venous congestion, interstitial and alveolar edema on chest x-rays.
5. Understand cardiac hemodynamics and be able to correlate these events with cardiac symptoms, physical findings and the electrocardiogram.
6. Understand the basic pharmacology, including indications, contraindications, and dose of common cardiac drugs, including digitalis, antihypertensive, and antiarrhythmic drugs.
7. Know indications for and develop understanding of interpretation of various testing modalities in cardiovascular disease.
8. Know indications and limitations of Cardiac Transplantations.

Course Specifics

Report First Day	Contact Mary Bennett (757-419-3001) to arrange time and location of first meeting
Student Efforts	Patient Contact: 95% Inpatient; 5% Outpatient; 10 hrs/wk rounds; 4 hrs/wk conferences/lectures; 30 hrs/wk study/reading time; 20 hrs/wk faculty contact time
Evaluation	95% clinical observation; 5% article discussion at end of course
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Robert Bernstein, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Lena Seals
Period Offered	Continuously	Contact Email	lrseals1@sentara.com
Duration	4 weeks	Contact Phone #	757-507-8909
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective is designed for the student who has particular interest in cardiac rhythm disturbances, particularly in more advanced EKG interpretation, evaluation of complex arrhythmias to include atrial tachycardia, atrial fibrillation, Supraventricular tachycardia, Premature Ventricular Contractions/Ventricular tachycardia. The student will be observing the evaluation and management of patients requiring antiarrhythmic drug therapy. There will be direct observation and assessment of patients undergoing electrophysiologic studies and ablation procedures to include endovascular and epicardial/surgical techniques. This rotation also involves evaluation of pacemakers, implantable cardioverter-defibrillators and resynchronization devices, including patient selection, observation of implantation procedures, and participation in the outpatient clinic.

Course Objectives

1. Evaluate complex arrhythmias
2. Assess patients undergoing electrophysiologic studies
3. Understand how to evaluate pacemakers
4. List indications for pacemaker placement
5. Observe the appropriate procedure for pacemaker placement
6. Understand the role of automatic convertible cardioverter-defibrillators in the treatment of arrhythmias
7. Participate in a clinical research project

Course Specifics

Report First Day	Electrophysiology Lab, Sentara Norfolk General Hospital. Please contact Lena Seals at least one week prior to starting the rotation for further details
Student Efforts	Patient contact: consultation, patient rounds, observation in the electrophysiology lab and outpatient clinics. 100%
Evaluation	10% oral exam and 90% clinic observation. An honors grade is possible through this rotation and should be discussed at the start of the rotation. The goals that needed to be met for an Honors grade should be discussed with the preceptors.
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Phillip Selvarayan, MD	Course Categories	Elective
Location	Veteran's Affairs Medical Center, Hampton	Main Contact	Gail Bonham
Period Offered	Continuously	Contact Email	
Duration	4 weeks	Contact Phone #	757-722-9961
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will work directly with attending Cardiologists in general cardiology consultations, outpatient cardiology clinics, observation of and interpretation of electrocardiograms, echocardiograms, echocardiography, exercise stress testing and nuclear stress testing. Emphasis will be on the indications and use of cardiac physical diagnosis and non-invasive cardiac testing in the management of common cardiac problems one would encounter in primary care or general internal medicine. The student will also attend noon conferences and Grand Rounds at the VAMC. The student will be encouraged to develop a cardiac topic and present to the Cardiology section or a noon conference.

Course Objectives

1. Take a detailed cardiovascular history.
2. Perform a detailed cardiac examination with emphasis on exam of the heart and cardiac auscultation.
3. Develop an approach to interpreting the electrocardiogram and be able to interpret basic abnormalities and arrhythmias.
4. Describe cardiac anatomy as represented on the plain X-ray, echocardiogram, and cardiac nuclear studies.
5. List the indications for Echocardiography
6. List the indications, contraindications and risk/benefits for stress testing and interpretation of results.
7. List the diagnostic criteria and "work-up" for congestive heart failure, coronary artery disease, hypertension and valvular disease and develop an understanding of practice guidelines for common cardiac syndromes.
8. Review the pharmacology of common cardiovascular drugs.

Course Specifics

Report First Day	Gail Bonham, Medical Service Office, Room 201, Building D114, VA Medical Center, Hampton, VA
Student Efforts	Patient contact: 50% outpatient, 50% inpatient; Cardiac laboratory (stress testing, echocardiography, ECG) 20 hrs/wk; conferences/lectures, 5 hrs/wk; clinics and consultations, 10 hrs/wk; study/reading time, 5 hrs/wk, faculty contact time, 30 hrs/wk.
Evaluation	100% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1	Veteran's Affairs Medical Center, Hampton
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Course Information

Course Director	JE Brush, MD	Course Categories	Elective
Location	Sentara, Leigh Hospital	Main Contact	Lena Seals
Period Offered	July - May	Contact Email	LRSeals1@sentara.com
Duration	4 weeks	Contact Phone #	757-507-8909
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

A busy consultative service, emphasizing clinical cardiology, clinical decision making, intensive care cardiology, EKG reading and the proper use of cardiac testing.

Course Objectives

1. Introduction to a broad array of cardiology patients with a variety of common cardiology disorders.
2. Introduction to basic principles of clinical reasoning, using cardiology patients as examples.
3. Introduction to basic EKG reading and an understanding of the proper use of common cardiac tests and therapies.

Course Specifics

Report First Day	Please call Lena at 757-507-8909 one week prior to your start date. She will provide the name and pager number of the physician that you will contact on your first day. Rounds start at 7am. Meet at Sentara Leigh Hospital on the 3rd floor - ICU.
Student Efforts	Patient Contact: 100% Inpatient; 20 hrs/wk rounds; 20 hrs/wk study/reading; 5 hrs/wk conferences/lectures; 20 hrs/wk faculty contact time
Evaluation	100% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1 | Sentara, Leigh Hospital

DEPARTMENT OF INTERNAL MEDICINE:

CRITICAL CARE MEDICINE

Course Information

Course Director	Paul E. Marik, M.D., FCCP, FCCM	Course Categories	CC
Location	Sentara, Norfolk General Hospital	Main Contact	Ylonda Boatright
Period Offered	Continuously	Contact Email	boatrij@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7439
Restrictions	Blocks 1 – 6 Open to M4 students pursuing categorical Internal Medicine Residency only	Pre-Requisites	None
# of Students	4 per block	Night Call	Every 4th Night

Course Description

Fourth year students involved in the Intensive Care Unit Rotation will be expected to round with the Intensive Care Unit Team. Students will work under the supervision of upper level residents and Pulmonary/Critical Care Medicine Faculty. This rotation will allow students to see critically ill patients and gain experience in managing mechanical ventilation, interventions, such as nutritional support.

Course Objectives

1. The students will learn basic knowledge of Intensive Care Medicine including Cardiac and Pulmonary support, indications for enteral and parenteral nutrition, continuous and intermittent dialysis techniques, and appropriate antibiotic use in the Intensive Care Unit.
2. Students will acquire experience in placing arterial and venous catheters, x-ray interpretation, and an understanding of the technique of oral intubation and bronchoscopy.

Course Specifics

Report First Day	General Intensive Care Unit, 2nd Floor, Sentara Norfolk General Hospital
Student Efforts	100% inpatient with two hours per week of ICU lectures in addition to regularly scheduled Medicine lectures.
Evaluation	100% Clinical Observation
Other	Contact Ylonda Boatright, boatrij@evms.edu one week prior to rotation start to obtain additional objectives and instructions for the rotation. Student must have a pager for rotation. Students are asked to review the ICU handbook prior to start of rotation.

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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DEPARTMENT OF INTERNAL MEDICINE:

ENDOCRINOLOGY

Course Information

Course Director	Michael Galitz, MD	Course Categories	AMB, Elective
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description

Sub-specialists in the division of Endocrinology & Diabetes provide expert medical care for adult patients with hormonal disorders. Our clinic is a multidisciplinary service composed of physicians, nurse practitioners, certified diabetes educators, DXA technologists, and corps-staff. The services we offer include Endocrinology subspecialty consultation for both in- and out-patients, assistance with Diabetes management, Diabetes education and classes, bone mineral density assessment (DXA scanning), thyroid fine needle aspiration, and metabolic testing. Endocrinologists serve as inpatient or outpatient consultants, patient and physician educators, and physician scientists in Endocrinology. With such a variety of available experiences, your educational opportunities are vast and we are committed to tailoring your rotation here to best serve your educational objectives.

Course Objectives

1. Perform the initial assessment including history and clinical presentation and development of differential assessments of patients referred for concerns of endocrine disease
2. Know common physical exam findings associated with endocrine disease
3. Know the appropriate review of systems for endocrine disease
4. Learn the diagnostic approach and common clinical tests for frequently seen conditions in outpatient endocrinology
5. Understand the diagnostic workup and follow-up of patients with more complex inpatient endocrine disease
6. Demonstrate awareness and early skill in the appraisal of sources and content of medical information

Course Specifics

Report First Day	Graduate Medical Education Office, BLDG 3, 3rd Floor at 0800 on first day of rotation for check-in documents.
Student Efforts	Patient contact: 80% outpatient, 20% inpatient; 4 hrs/wk rounds; 4 hrs/wk conferences/lectures; 5-8 hrs. study/reading time; 20 hrs/wk faculty contact time.
Evaluation	100% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1 | Naval Medical Center Portsmouth

Course Information

Course Director	Aaron Vinik, M.D., Ph.D., FCP, MACP, FACE	Course Categories	Elective, Scholarly Activity
Location	Strelitz Diabetes Center	Main Contact	Aaron Vinik, M.D., Ph.D., FCP, MACP, FACE
Period Offered	September-May	Contact Email	vinikai@evms.edu
Duration	4-6 weeks	Contact Phone #	757-446-5291
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will learn clinical evaluation of patients for complications of diabetes, including macro and micro-vascular, renal and neuropathic signs and symptoms. Emphasis will be placed on clinicopathologic correlates and the design and implementation of clinical management protocols and introduction to clinical research design. Exposure to data base construction, critical review of the literature and issues current and pertinent to clinical research will be provided. An appreciation of multidisciplinary approaches to clinical problem solving will also be gained.

Course Objectives

1. Participate in the clinical evaluation of patients with diabetes mellitus
2. List the common complications of diabetes mellitus including macro and micro-vascular, renal, and neurologic signs and symptoms of diabetes
3. Design and implement clinical management protocols for the management of complications of diabetes mellitus
4. Understand the basics of clinical research design
5. Demonstrate awareness and early skill in the appraisal of medical literature and data base construction
6. Appreciate a multi-disciplinary approach to clinical problem solving

Course Specifics

Report First Day	Call the office at 757-446-5291 and make an appointment to see Dr. Vinik, at least one day prior to the start of rotation
Student Efforts	100% Outpatient; 6 hrs/wk study/reading time, 2 hrs/wk faculty contact time, 6 hrs/wk conference/lectures, 26 hrs/wk patient evaluation and research activity.
Evaluation	50% clinical observation; 50% mentor evaluation of student performance in context of clinical research.
Other	N/A

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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Course Information

Course Director	Elizabeth Jenkins, MD	Course Categories	Elective
Location	Strelitz Diabetes Center Sentara, Norfolk General Hospital Sentara, Heart Hospital	Main Contact	Natalie Gray
Period Offered	Continuously	Contact Email	graynr@evms.edu
Duration	4 weeks	Contact Phone #	757-446-5910
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The endocrine elective will expose the student to a comprehensive spectrum of endocrine conditions. The student will see a broad spectrum of endocrine diseases, including type 1 and type 2 diabetes and their complications, thyroid disorders, conditions affecting both male and female reproduction, obesity, adrenal and pituitary gland disease, neuroendocrine tumors and their associated syndromes, and conditions involving bone and calcium metabolism. Students will be involved in both initial patient visits in the clinic and in follow-up visits. They will also participate as a member of the endocrine consult service for a portion of the elective, and will write and present patient notes to the consult attending. Students are encouraged to attend a variety of endocrine-focused conferences during their elective time, including endocrine grand rounds, the endocrine core lecture series, journal club and endocrine case conference.

Course Objectives

1. Perform the initial assessment including history and clinical presentation and development of differential assessments of patients referred for concerns of endocrine disease
2. Know common physical exam findings associated with common endocrine conditions
3. Know the appropriate review of systems for endocrine disease
4. Learn the diagnostic approach and common clinical tests for frequently seen conditions in outpatient endocrinology
5. Understand the diagnostic workup and follow-up of patients with more complex inpatient endocrine disease
6. Understand the role of a consultant

Course Specifics

Report First Day	Please contact Natalie Gray for details (757) 446-5910 or graynr@evms.edu .
Student Efforts	Patient contact: 50% outpatient; 50% inpatient; 20 hrs/wk, patient contact time; 20 hrs/wk, study/reading time, including conferences and lectures.
Evaluation	100% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Sentara, Heart Hospital

DEPARTMENT OF INTERNAL MEDICINE:

GASTROENTEROLOGY

Course Information

Course Director	Bruce Waldholtz, MD	Course Categories	AMB
Location	Chesapeake Regional Medical Center	Main Contact	Bruce Waldholtz, MD
Period Offered	Continuously	Contact Email	srdover2001@yahoo.com
Duration	4 weeks	Contact Phone #	757-627-6416
Restrictions	n/a	Pre-Requisites	None
# of Students	1-3 per block	Night Call	No

Course Description

An introductory clinical experience in Gastroenterology and Hepatology, involving both the evaluation of out-patients and common gastroenterology problems and in-patient consultation in patients that included multi-system disease. The student will have exposure to all Gastroenterologic and Endoscopic procedures, along with the chance to correlate clinical endoscopic and radiographic findings.

Course Objectives

1. To learn the diagnostic approach and common tests needed for frequently seen out-patient gastrointestinal disease.
2. To become familiar with and observe common endoscopic procedures and correlate with history and physical findings.
3. To learn how to use a plastic model, in terms of developing beginning skills using a flexible sigmoidoscope, thus facilitating this when using the sigmoidoscope with patients in the future.
4. To become familiar with the presentation and therapy of complex gastrointestinal diseases.
5. To learn the indications of common endoscopic procedures
6. To learn to coordinate radiologic findings with clinical presentations of disease.
7. To learn the role of the Gastroenterologist as a consultant to the primary care physician.
8. To become familiar with basic Gastroenterology textbooks and journals.

Course Specifics

Report First Day	Call Office – 627-6416
Student Efforts	In-patient 50%, Out-patient 50%, 1-2 hrs/wk conference time. Total faculty contact time: 40 hrs/wk, 10 hrs/wk reading time
Evaluation	100% Clinical Observation - Oral Discussion
Other	Recommended Text: <ol style="list-style-type: none"> 1. Schlesinger & Fordtran's Textbook of Gastroenterology 2. Sherlock's Disease of the Liver and Biliary System 3. GI Section in Harrison's Textbook 4. Diseases of the Liver, Schiff

Site Compliance Requirements

Hospital 1	Chesapeake Regional Medical Center
Hospital 2	Sentara, Norfolk General Hospital

Course Information

Course Director	Patrick Webb, MD	Course Categories	Elective
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description

The students will be exposed to the practice of clinical gastroenterology on both an inpatient and outpatient basis. In a staff supervised setting, the students will become familiar with the evaluation and treatment of common problems in gastroenterology. In addition, the students will be exposed to the various endoscopic procedures and esophageal manometrics. A review of pertinent liver biopsies and barium studies of G.I. tract will be included. Numerous teaching conferences are scheduled.

Course Objectives

1. To become familiar with the diagnostic and therapeutic maneuvers involved in the care of patients with acute gastrointestinal hemorrhage.
2. To learn the diagnostic approach and therapy of common outpatient gastrointestinal problems.
3. To become familiar with the diagnostic work-up, therapy and follow-up of more complex inpatient gastrointestinal diseases.
4. To become familiar with the performance of endoscopic procedures and learn their indications, complication, and limitations.
5. To become familiar with the performance and interpretation of gastrointestinal function studies such as: esophageal manometrics, radionuclide imaging, etc.
6. To become familiar with the diagnostic approach to patients with acute and chronic disease, interpretation of liver biopsies, and the various approaches to therapy.
7. To become familiar with the performance and interpretation of proctoscopic examinations.

Course Specifics

Report First Day	Graduate Medical Education Office, BLDG 3, 3rd Floor at 0800 on first day of rotation for check-in documents.
Student Efforts	Patient Contact: 20 hrs/wk Outpatient; 10 hrs/wk Inpatient; 5 hrs/wk rounds/x-ray review; 6 hrs/wk study/library time; 2 hrs/wk GI path review/conference
Evaluation	100% clinical observation
Other	Required Text: 1. Entire section on Gastroenterology of any major textbook on Internal Medicine Recommended Reference Texts: 1. Sleisinger & Fordtran's "Gastrointestinal and Liver Disease" 2. Sherlock's "Diseases of the Liver and Biliary System" 3. Schiff's "Diseases of the Liver"

Site Compliance Requirements

Course Information

Course Director	Daniel Neumann, MD	Course Categories	AMB
Location	Gastrointestinal & Liver Specialists of Tidewater 5818 Harborview Blvd, Suite 240, Suffolk VA	Main Contact	Veronica Jordan
Period Offered	Continuously	Contact Email	vjordan@glsts.com
Duration	4 weeks	Contact Phone #	757-483-6100
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

An introductory clinical experience in Gastroenterology and Hepatology, involving both the evaluation of out-patients and common gastroenterology problems and in-patient consultation in patients that include multi-system disease. The student will have exposure to all Gastroenterologic and Endoscopic procedures, along with the chance to correlate clinical endoscopic and radiographic findings.

Course Objectives

1. To learn the diagnostic approach and common tests needed for frequently seen out-patient gastrointestinal disease.
2. To become familiar with and observe common endoscopic procedures and correlate with history and physical findings.
3. To learn how to use a plastic model, in terms of developing beginning skills using a flexible sigmoidoscope, thus facilitating this when using the sigmoidoscope with patients in the future.
4. To become familiar with the presentation and therapy of complex gastrointestinal diseases.
5. To learn the indications of common endoscopic procedures.
6. To learn to coordinate radiologic findings with clinical presentations of disease.
7. To learn the role of the Gastroenterologist as a consultant to the primary care physician.
8. To become familiar with basic Gastroenterology textbooks and journals.

Course Specifics

Report First Day	Contact Veronica Jordan, (757) 483-6100
Student Efforts	In-patient 25%, Outpatient 75%
Evaluation	100% Clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Obici Hospital
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Course Information

Course Director	Taylor Wootton, MD	Course Categories	Elective
Location	Sentara, Leigh Hospital Sentara, Norfolk General Hospital	Main Contact	Donna Beck
Period Offered	Continuously	Contact Email	donnab@dlds.org
Duration	4 weeks	Contact Phone #	757-961-1127
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	No

Course Description

An intensive clinical experience in gastroenterology and hepatology, heavily weighted to inpatient consultation and management of primary, secondary and tertiary level care problems. Cognitive and diagnostic approaches to patients with digestive and liver diseases are emphasized.

Course Objectives

1. To provide a rich and intensive clinical experience in digestive-liver diseases and nutritional support.
2. To integrate basic physiology, pathophysiology and clinical medicine at the bedside.
3. To emphasize the importance and complementary nature of cognitive and procedural diagnostic testing.
4. To become familiar with the basic GI-liver textbooks, journals and their use as aids in clinical problem solving, conference design and writing case reports.

Course Specifics

Report First Day	Sentara Norfolk General Hospital, GI Station, 8 AM
Student Efforts	Patient Contact: flexible, usually weighted to inpatient but may be designed; 90% Inpatient, 10% Outpatient; 10 hrs/wk study/reading time; 40 hrs/wk rounds; 1 hr/wk conferences/lectures; 40 hrs/wk faculty contact time Honors grade requires superlative clinical performance and a written case report, paper, or oral presentation with appropriate handout and audiovisual support.
Evaluation	85% clinical, 15% oral
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Leigh Hospital
Hospital 2	Sentara, Norfolk General Hospital

Course Information

Course Director	Alan Gamsey, MD FACP FACC	Course Categories	Elective
Location	Gastrointestinal & Liver Specialists of Tidewater 112 Gainsborough Sq, Chesapeake VA Bon Secours, DePaul Medical Center Sentara, Leigh Hospital Chesapeake Regional Medical Center	Main Contact	Michelle Duncan
Period Offered	July, October, December, April-May	Contact Email	mduncn@gatgi.com
Duration	4 weeks	Contact Phone #	757-889-6800
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

An intensive clinical experience in gastroenterology and hepatology. The student will have exposure to all gastroenterology procedures. Cognitive and diagnostic approaches to patients will be emphasized, with ample time for self-study.

Course Objectives

1. To learn the diagnostic approach and common tests needed for frequently seen out-patient gastrointestinal disease.
2. To become familiar with and observe common endoscopic procedures and correlate with history and physical findings.
3. To learn how to use a plastic model, in terms of developing beginning skills using a flexible sigmoidoscope, thus facilitating this when using the sigmoidoscope with patients in the future.
4. To become familiar with the presentation and therapy of complex gastrointestinal diseases.
5. To learn the indications of common endoscopic procedures.
6. To learn to coordinate radiologic findings with clinical presentations of disease.
7. To learn the role of the Gastroenterologist as a consultant to the primary care physician.
8. To become familiar with basic Gastroenterology textbooks and journals.

Course Specifics

Report First Day	112 Gainsborough Square, #200, Chesapeake VA
Student Efforts	Patient Contact: 85% Inpatient, 15% Outpatient; 10 hrs/wk study/reading time; 40 hrs/wk rounds; 40 hrs/wk faculty contact time; 1-2 hrs/wk conferences/lectures
Evaluation	25% oral exam, 75% clinical observation
Other	Required Text: 1. Entire section on Gastroenterology of either: Harrison's "Principles of Internal Medicine" or Cecil's "Textbook of Medicine". Recommended Reference Texts: 1. Sleisenger and Fordtran's textbook of "Gastroenterology Disease". 2. Sherlock's "Diseases of the Liver and Biliary System". 3. Schiff's "Diseases of the Liver". 4. Scheur's "Liver Biopsy Interpretation". 5. Robbin's Pathologic Basis of Disease".

Site Compliance Requirements

Hospital 1	Bon Secours, DePaul Medical Center
Hospital 2	Sentara, Leigh Hospital
Hospital 3	Chesapeake Regional Medical Center

DEPARTMENT OF INTERNAL MEDICINE:
GERIATRICS

Course Information

Course Director	Marissa C. Galicia-Castillo, M.D., MEd., CMD, FACP	Course Categories	Elective
Location	Glennan Center for Geriatrics	Main Contact	Madeline Dunstan
Period Offered	Continuously	Contact Email	dunstaml@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7436
Restrictions	n/a	Pre-Requisites	Interest in Geriatrics
# of Students	1 per block	Night Call	No

Course Description

The course is designed for senior medical students interested in a career in primary care internal medicine or family medicine with an emphasis on geriatrics and who wish to pursue an elective prior to the beginning of internship and residency. The elective provides diverse exposure to older patients in various settings of care: long-term care, skilled nursing facility, continuing care retirement community, memory consultation clinic, and assisted living facility. These settings allow for a rich assortment of patients and health care professionals with whom the student can interact. Daily rounds with the attending physician, opportunities to work and learn with multiple levels of trainees, and direct patient care responsibilities provide the foundation for the experience. Students should also expect to consult with members of the interdisciplinary team (PT, OT, SW, nursing, dietary, speech and language) and participate in therapy sessions, care planning conferences and family meetings. Students will attend morning reports, didactic sessions, interdisciplinary conferences, and develop and give presentations of both patients and topics to supervisory physicians, colleagues, other health professions students and staff. The student will receive the current edition of Geriatrics At Your Fingertips and attend all Glennan Center education programs and other didactics as assigned during the rotation.

Development of a clinical research or library-based research project or paper and presentation at the Glennan Center Geriatric Conference is required for Honors. Glennan Center faculty, including Drs. Aravich, Galicia-Castillo, Kannarkat, Mazzurco, Morris, Okhravi, Palmer and Smith serve as advisors for student projects and are involved in teaching the geriatric elective. Students should seek consultation during week one of the rotation regarding Honors expectations to determine the student's project goals and objectives and to map out a timeline for completion of the honor's project.

Course Objectives

Goal: To enhance the students understanding of geriatric patients and to cover the general topics for the field of geriatric medicine.

Objectives:

1. Demonstrate clinical skills in diagnosing, managing and treating older patients with multiple chronic and acute health problems in ambulatory and long-term care settings, including rehabilitation facilities, assisted living-dementia care and palliative care.
2. Demonstrate the ability to assess the psychosocial aspects of a patient's history and the effects they might have on the health and wellbeing of the patient. Assess baseline and current functional ability by collecting historical data from multiple sources.
3. Create differential diagnosis, document complete medication list and perform comprehensive medication reconciliation.
4. Develop an understanding of the different settings of care (LTC, SNF, CCRC, etc.) and scope of services provided, including general eligibility for admission and discharge criteria.
5. Create a positive relationship with the patient and family to assure optimal medical care, assuring the emotional and cultural needs and expectations of geriatric patients.
6. Demonstrate respect and compassion for elderly patients. Identify situations where life expectancy, functional status and patient preference or goals of care might support recommendations for comfort care.
7. Participate in the multidisciplinary approach to caring for older persons, including appropriate recognition of other health professionals and paraprofessionals' roles. Demonstrate familiarity with team interactions, i.e., pharmacist, physician's assistant, advanced practice nurse, occupational, physical and speech therapists, social worker and case manager.
8. Formulate care plans for geriatric patients that involve the interdisciplinary team, the patient and caregivers focusing on rehabilitation, adaptive interventions, transitions of care, health maintenance, preventive care and goals of care.

Course Specifics

Report First Day	Contact Madeline Dunstan at least one week in advance of the rotation to confirm assignment, reporting date, time and location. Students will receive a syllabus, schedule and orientation to the elective on the first day.
Student Efforts	60% patient care, 35% formal education, and 5% self-study
Evaluation	Clinical observation based on the aforementioned objectives as well as evaluation feedback from the Glennan Center Geriatric Care team. "Honors" grade will be considered for any student who completes a project that includes either a clinical research or library-based research project or paper and presentation at the Glennan Geriatric Conferences.

Site Compliance Requirements

Hospital 1	Non-hospital experience
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DEPARTMENT OF INTERNAL MEDICINE:
INFECTIOUS DISEASE

Course Information

Course Director	James Radike, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Kaitlyn Ray
Period Offered	Continuously	Contact Email	rayke@evms.edu
Duration	4 weeks	Contact Phone #	757-446-8425
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	Weekend call

Course Description

This elective will provide an introduction to infectious disease. Emphasis will be on the evaluation of patients with a variety of infections on the inpatient wards including endocarditis, meningitis, nosocomial infectious, antibiotic resistance and osteomyelitis.

A set of reference materials covering the major aspects of Infectious Disease will be provided to each student.

Course Objectives

1. To become familiar with the signs and symptoms, and differential diagnosis of infectious disease.
2. To become familiar with the services of the microbiology laboratory and the cost effective use of lab tests.
3. To learn the safe, cost effective use of anti-microbial agents.

Course Specifics

Report First Day	Contact two weeks prior to the start of the elective
Student Efforts	Patient Contact: 100% inpatient, 25 hours/week rounds, 20+ hours/week faculty contact time, 15 hours/week study/reading time.
Evaluation	100% Clinical Observation
Other	Students must have a pager during this rotation. During interview season please contact Ms. Ray via email once you are notified of an interview. Please keep in mind that you are only allowed 3 interview days during the rotation.

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	James Radike, MD	Course Categories	AMB
Location	EVMS Department of Internal Medicine	Main Contact	Kaitlyn Ray
Period Offered	Continuously	Contact Email	rayke@evms.edu
Duration	4 weeks	Contact Phone #	757-446-8425
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective includes a comprehensive approach to HIV/AIDS care beginning with initial diagnosis, moving through preventative care, and dealing with end-stage processes and death related issues. There is a strong focus on outpatient experience but hospital care/teaching will also be provided. Teaching will be on a one-on-one basis for patient care. Reading topics and slide collections will be provided.

Course Objectives

1. To develop clinical expertise in diagnosis and treatment of HIV-related immune compromise and opportunistic infections.
2. To understand and implement preventative measures and health maintenance for HIV-infected individuals.
3. To become familiar with adjunct therapies and psycho-social aspects of HIV care from a physician's standpoint and the patient's.

Course Specifics

Report First Day	Contact two weeks prior to the start of the elective
Student Efforts	Patient contact: 85% outpatient, 15% in hospital. 30 hrs/wk of direct patient care. 2 hrs/wk of slide review and didactic learning; 8 hrs/wk of study/reading time.
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Catherine Derber, MD	Course Categories	Elective, Scholarly Activity
Location	EVMS	Main Contact	Catherine Derber, MD
Period Offered	Continuously	Contact Email	derbercj@evms.edu
Duration	Longitudinal	Contact Phone #	757-446-8910
Restrictions	n/a	Pre-Requisites	Meeting with Course Director
# of Students	6	Night Call	No

Course Description

The student will spend 4 weeks continuously or intermittently over a full year with Dr. Catherine Derber, Chair of the HIV Quality Improvement Committee at EVMS. The student will work with the quality improvement team in various aspects of EVMS HIV QI activities that may include designing and implementing a quality improvement project, best practices research and implementation, and development of programs to disseminate knowledge.

Course Objectives

1. Understand basic principles of quality improvement in the setting of an HIV practice.
2. Understand the basic research methodologies and techniques used in Quality Improvement.
3. Understand the basic organizational structures that foster integration of Quality Improvement in an HIV setting.
4. Course objectives may be tailored to meet a student's specific needs in conjunction with Dr. Derber.

Course Specifics

Report First Day	Contact at least two weeks prior to the beginning of the elective
Student Efforts	
Evaluation	The student's final grade will be based on performance as evaluated by Director and the QI team and on the student's research and written QI project. Amount of credit given to student will be based on time, effort, and performance by the Elective Director.

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Robert C. Radin, M.D.	Course Categories	Elective
Location	3386 Holland Road, Suite 202, Virginia Beach VA 23452	Main Contact	Robert C. Radin, M.D.
Period Offered	July, November	Contact Email	allergy@radinmd.hrcoxmail.com
Duration	2 weeks	Contact Phone #	757-468-6058
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Clinical allergy/immunology with exposure to practice management. The student will see asthma, allergic rhinitis, drug allergies, urticaria, and immune disorders.

Course Objectives

1. Perform the initial assessment including history and clinical presentation and development of differential diagnoses of patients referred for concerns of allergic conditions.
2. Know common physical exam findings associated with allergic and immunologic conditions
3. Learn the management of common conditions in the outpatient allergy and immunology clinic including asthma, allergic rhinitis, drug allergies, urticarial, and immune disorders
4. Interpret common diagnostic tests including pulmonary function tests, chest x-ray, bronchoscopy findings, and blood studies for immune dysfunction

Course Specifics

Report First Day	Contact two weeks prior to start of elective
Student Efforts	100% Outpatient; 32 hrs/wk faculty contact time; 1 hr/wk conference/lectures.
Evaluation	90% clinical observation, 10% written exam
Other	N/A

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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Course Information

Course Director	Stephen E. Scranton, MD	Course Categories	AMB
Location	6501 Loisdale Court, Springfield VA 22150	Main Contact	Jonathan Holland
Period Offered	January	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Student will be involved directly in the evaluation and management of patients with allergic and immunologic disorders, including asthma, allergic rhinitis, atopic dermatitis, urticarial, food allergy, anaphylaxis, and recurrent infections. Knowledge and clinical experience will be obtained by learning to interpret blood levels for food and environmental allergies, immune function, CXRs, PFTs and skin testing.

Course Objectives

1. Understand how to evaluate a patient with asthma, determine the severity and develop an appropriate treatment plan, including trigger avoidance.
2. Learn the appropriate use of the various medications used in the treatment of asthma; understand the proper use inhalers, spacers and peak flow meters.
3. Understand the various medications, including antihistamines, decongestants and steroids used in the treatment of nasal allergies.
4. Understand the principles of immune-therapy and its appropriate use.
5. Learn how to evaluate and recognize children and adults with a suspected immunodeficiency.
6. Understand the appropriate use of referrals to the allergist/immunologists.
7. Diagnose and treat food allergy and other adverse food reactions.
8. Evaluate and treat patients with urticarial and angioedema, including hereditary angioedema.
9. Identify and avoid allergic triggers.
10. Treat adverse drug reactions.
11. Diagnose and treat stinging insect reactions.

Course Specifics

Report First Day	Springfield Medical Center, 6501 Loisdale Ct, Springfield, VA 22150 Please email beforehand for details.
Student Efforts	100% Outpatient
Evaluation	90% Clinical Observation; 10% Oral Exam
Other	n/a

Site Compliance Requirements

DEPARTMENT OF INTERNAL MEDICINE:

NEPHROLOGY

Course Information

Course Director	Thomas McCune, MD, FACP	Course Categories	Elective
Location	Nephrology Associates of Tidewater Sentara, Norfolk General Hospital Sentara, Virginia Beach General Hospital Bon Secours, DePaul Medical Center	Main Contact	Chrisandra Knight
Period Offered	Continuously	Contact Email	knightcs@evms.edu
Duration	2 or 4 weeks	Contact Phone #	757-446-0375
Restrictions	n/a	Pre-Requisites	None
# of Students	3 per block	Night Call	No

Course Description

The student will make clinical rounds on patients on the inpatient EVMS Renal and Nephrology Assoc. Consult Service at their assigned hospital. Hospitals are assigned by the program on a first come basis. The student will also be given selected lectures and will be responsible for presenting a clinical topic or journal article at one of our division renal conferences.

Course Objectives

Intermediate Objectives:

1. To learn the pathophysiology of acute renal failure in the hospitalized patient with renal disease.”
2. To learn the management of acute and chronic renal failure and hypertension in the hospitalized patient.
3. To learn the evaluation of acid-base and fluid and electrolyte imbalance and their management.
4. To understand the rationale for the choices of different forms of treatment in acute renal failure and end-stage renal disease.
5. To understand the different techniques of dialysis including newer modalities.
6. Students at SNGH will have experience with kidney and pancreas transplantation. In the inpatient and in the outpatient clinic.

By the end of the elective the student should be able to:

1. Assess renal function in patients and plan a rational investigative course using both non-invasive and invasive techniques to determine the cause and extent of disease.
2. To formulate a plan for the short and long term management of the hospitalized renal patient.

Course Specifics

Report First Day	Please contact Chrisandra Knight
Student Efforts	Patient contact, 100%. Inpatient; 20 hours/week rounds; 2 hours/week conference/lectures; 20 hours/week faculty contact time; 10 hours/week study/reading.
Evaluation	100% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Sentara, Virginia Beach General Hospital
Hospital 3	Bon Secours, DePaul Medical Center

Course Information

Course Director	Austin Parker, MD and Eric Sawyers, MD	Course Categories	AMB, Elective
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description

The student will evaluate both inpatients on various specialty services and outpatients on the Nephrology Consultation Service. The student will present and discuss these patients with staff attending nephrologists and be guided to the appropriate reading on topics related to these patients. Introduction to hemodialysis, peritoneal dialysis and continuous renal replacement therapy also provided.

Course Objectives

Intermediate Objectives

1. Enhance skills in evaluation and therapy of patients with various renal diseases.
2. Enhance knowledge of pathophysiology and treatment of acid-base, fluid and electrolyte problems.

Enabling Objectives:

By the end of the elective, the student should be able to:

1. Perform an appropriate H & P for patients with nephrologic problems.
2. Discuss selected topics in renal disease and electrolyte disorders.
3. Perform an adequate urinalysis evaluation.

Course Specifics

Report First Day	Graduate Medical Education Office, BLDG 3, 3rd Floor at 0800 on first day of rotation for check-in documents.
Student Efforts	Patient Contact: 50% Inpatient; 50% Outpatient; 5 hrs/wk rounds; 5-8 hrs/wk conferences/lectures; 10-16 hrs/wk study/reading; 20-25 hrs/wk faculty contact.
Evaluation	40% clinical observation; 30% case presentation; 30% topic discussions
Other	N/A

Site Compliance Requirements

Hospital 1	Naval Medical Center Portsmouth
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DEPARTMENT OF INTERNAL MEDICINE:

PALLIATIVE CARE MEDICINE

Course Information

Course Director	Marissa C. Galicia-Castillo, M.D., MEd., CMD, FACP	Course Categories	Elective, Scholarly Activity
Location	Sentara, Norfolk General Hospital	Main Contact	Madeline Dunstan
Period Offered	Continuously	Contact Email	dunstaml@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7436
Restrictions	n/a	Pre-Requisites	Interest in End-Of-Life & Pain Management
# of Students	1 per block	Night Call	No

Course Description

The course is designed for senior medical students whose careers might include patient and family discussions about life and death decisions, treatment of difficult pain and other symptoms, and working with interdisciplinary teams. The Sentara Norfolk General Hospital Palliative Care Service consists of a physician; a nurse practitioner, a nurse specialized in neuroethics, and a social worker. While the primary teaching site is Sentara Norfolk General, students are also scheduled time with the Palliative Care Consult Service at Sentara CarePlex and Chesapeake Rehab and Care Center. This rotation allows the student the opportunity to experience the human side of tertiary care medicine, to integrate science with humanities and to test the waters for a fellowship or career in the new field of hospice and palliative care. The rotation aims to give future physician the opportunity to care for the sickest of the sick patient, to acquire new skills and work with a dynamic interdisciplinary team.

Palliative care consults are generated on patients with serious illness, often with multi-system failure and suffering. The team evaluates patients, conducts family conferences and attempts to set goals of care. In addition, the team tries to control suffering. Conferences frequently include other physicians, consultants, chaplains and nurses in addition to the palliative care team. The student will participate in daily conferences to learn about patients and to plan the day and Team meetings. Students will be mentored by Dr. Marissa Galicia-Castillo, Dr. Lauren Mazzurco or Dr. Deborah Morris on the Palliative Care Team and/or other team members (social worker, nurse practitioner), observe evaluations and family meetings, and participate in the debriefings in which the team discusses family dynamics, and decision-making.

Depending on interest and skills, students may begin to work independently and conduct family meetings, learn to work collaboratively with nurses, social workers and chaplains and to lead debriefings. There will be an opportunity to read and compose patient reports to present at team meetings or other forums. Often the student will interact with the ethics team and attend the Sentara Norfolk General Hospital Ethics Committee Meeting as scheduled. Students attend one Grief Counseling/Support Group session with the social worker. Students receive a syllabus with links to key readings and articles. Students are also required to select a topic and give a presentation no longer than 30 minutes to the Palliative Care team in the last week of the rotation. Any Palliative Care Team member or the course director may offer guidance about the topic.

Course Objectives

1. Demonstrate clinical skills in diagnosing, managing and treating patients referred to the palliative care consultation team at Sentara Norfolk General Hospital; assess and provide initial management of pain and key non-pain symptoms based on patient’s goals of care.
2. Identify the psychological, social and spiritual needs of patients with advanced illness; interact with various members of the interdisciplinary team, the patient and family members; link identified needs with appropriate team members and create plan of care.
3. Develop an understanding of pain management, end-of-life care, family dynamics and ethical dilemmas in health care.
4. Demonstrate respect and compassion for patients.
5. Demonstrate ability to communicate in a team environment.
6. Formulate and carry out care plans for patients in the palliative care consultation service; present palliative care including hospice as a positive, active treatment option for a patient with advanced disease.

Course Specifics

Report First Day	Contact Madeline Dunstan at least two weeks in advance of the rotation to confirm assignment, date, time and location for reporting on the first day and to schedule orientation.
Student Efforts	100% inpatient care, (including approximately 10 hours each week study/reading, 10 hours each week rounding with the attending for the Palliative Care Service and Palliative Care Team, 10 hours each week family conferences, 10 hours each week evaluating patients)
Evaluation	20% based on written examination (Post-test) and in-service presentation, 80% clinical observation based on the aforementioned objectives. All members of the Palliative Medicine Consult Team contribute to the clinical evaluation. “Honors” grade will be considered for any student who completes a scholarly written paper or other approved project, completes the in-service and whose performance demonstrates exceptional effort, participation and leadership in team and family meetings and on the 360 evaluation completed by the preceptor and team members. Students should consult with the attending or the team during the first week of the rotation regarding the “honors” project.

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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DEPARTMENT OF INTERNAL MEDICINE:

PULMONARY MEDICINE

Course Information

Course Director	Eileen Hsu, MD	Course Categories	Elective
Location	8008 Westpark Drive, McLean VA 22102	Main Contact	Jonathan Holland
Period Offered	August-October, December-February, April	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Supervise inpatient and outpatient evaluation and treatment of patients with pulmonary diseases. Interpretation of radiography, pulmonary function studies and other diagnostic tests. Regular didactic sessions with pulmonary staff and scheduled conferences covering selected aspects of pulmonary medicine.

Course Objectives

1. Learn interpretation and application of basic pulmonary function testing.
2. Learn about diagnosis and management of common pulmonary diseases.
3. Learn x-ray examination of the chest.
4. Learn indications and usefulness of certain pulmonary procedures which includes thoracentesis, fiberoptic bronchoscopy, and lung biopsy (including those by Pulmonologist, Interventional Radiologist or Thoracic Surgeons)
5. Understand what questions require pulmonary consultation.
6. Practice basic pulmonary physical examination skills and relate the findings to underlying physiology or pathophysiology.

Course Specifics

Report First Day	Please call (703-287-1089 or 703-287-1076) or email Dr. Hsu 1 week prior to first day to discuss where to report: Eileen.H.Hsu@kp.org
Student Efforts	100% outpatient
Evaluation	80% Clinical Observation; 20% Oral Exam
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Jacob Carmichael, MD	Course Categories	AMB
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description

Supervised inpatient and outpatient evaluation and treatment of patients with pulmonary diseases. Interpretation of radiographs, pulmonary function studies and other diagnostic tests. Daily didactic sessions with pulmonary staff and scheduled conferences covering selected aspects of pulmonary medicine.

Course Objectives

Intermediate Objectives

1. To learn how to perform thorough patient evaluations.
2. To learn interpretation and application of basic pulmonary function testing.
3. To learn about diagnosis and management of common pulmonary diseases.
4. To learn x-ray examination of the chest.
5. To learn sputum examination.
6. To learn indications and usefulness of certain pulmonary procedures which include thoracentesis, pleural biopsy, fiberoptic bronchoscopy, bronchography, lung biopsy.
7. To understand what questions require pulmonary consultation.
8. To practice basic pulmonary physical examination skills and relate the findings to underlying physiology or pathophysiology

Enabling Objectives (By the end of the elective, the student should be able to):

1. List indications, contraindications and risk of pulmonary procedures.
2. Have understanding of basic pulmonary physiology and anatomy.
3. Have the ability to interpret basic pulmonary function tests.
4. Given a patient with a pulmonary problem - list unanswered questions in diagnosis, evaluation, and management.

Course Specifics

Report First Day	Graduate Medical Education Office, BLDG 3, 3rd Floor at 0800 on first day of rotation for check-in documents.
Student Efforts	Patient Contact: 30% Inpatient, 70% Outpatient; 5 hrs/wk inpatient rounds; 12 hrs/wk conferences/lectures; 1-3 hrs/wk procedures/pulmonary function testing; 20 hrs/wk outpatient exposure
Evaluation	80% clinical observation, 20% end of rotation presentation
Other	N/A

Site Compliance Requirements

Hospital 1	Naval Medical Center Portsmouth
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Course Information

Course Director	Joshua Sill, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Ylonda Boatright
Period Offered	Continuously	Contact Email	boatright@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7439
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Students will round on a daily basis with the Pulmonary attending and resident. The students will be responsible for maintaining contact with a group of patients on the Pulmonary Consult Service. Students will also be expected to evaluate new consultations in the outpatient sphere under the supervision of the pulmonary resident and attending.

Course Objectives

1. Students will become familiar with basic knowledge of pulmonary infections, inflammatory lung disease, pulmonary vascular disease and neoplasms of the lung and pleura.
2. Students will learn the indications, contraindications, and technique of pulmonary function testing, Methacholine Challenge testing, radiographic evaluation and bronchoscopy.

Course Specifics

Report First Day	Sentara Norfolk General Hospital, Pulmonary Function Lab
Student Efforts	90% inpatient and 10% outpatient
Evaluation	Clinical observation and, where appropriate, written evaluation at the end of the month
Other	Contact Ylonda Boatright, (boatright@evms.edu) 446-7439 one week prior to start of rotation to obtain additional objectives and instructions for the rotation.

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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DEPARTMENT OF INTERNAL MEDICINE:

RHEUMATOLOGY

Course Information

Course Director	Roger Lidman, MD	Course Categories	AMB
Location	Center for Arthritis and Rheumatic Disease, 816 Greenbrier Circle, A, Chesapeake VA 23320	Main Contact	Barbara Almas
Period Offered	August and January	Contact Email	balmas@centerforarthritis.com
Duration	4 weeks	Contact Phone #	757-467-7366
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will receive a well-rounded exposure to rheumatology, spending time in the office assisting with patients and helping work-up admissions.

Course Objectives

The student will be able to:

1. Perform a reasonably thorough examination of the joints.
2. Perform a reasonably thorough rheumatologic history.
3. Recognize significant abnormalities when they are found and apply them to a differential diagnosis of rheumatologic conditions.
4. Describe in some detail certain rheumatologic conditions.
5. Identify treatment programs and drugs for the rheumatologic diseases.
6. Describe rheumatologic procedures (e.g. joint taps, synovial biopsies, polarizing microscopic use, etc.)
7. Identify and explain the special laboratory tests available (FANA's, rheumatoid factor, etc.).
8. Learn x-ray interpretation of joint abnormalities.

Course Specifics

Report First Day	Email Barbara Almas to arrange your schedule
Student Efforts	Patient Contact: 100% Outpatient; 2 hrs/wk conferences/lectures; at least 40 hrs/wk faculty contact time.
Evaluation	90% clinical observation, 10% written exam
Other	N/A

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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Course Information

Course Director	Nadia Habal, MD	Course Categories	AMB, Elective
Location	6501 Loisdale Court, Springfield VA 22150	Main Contact	Jonathan Holland
Period Offered	September-October, April-May	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will receive a well-rounded exposure to rheumatology, spending time in the office assisting with patients.

Course Objectives

The student will be able to:

1. Perform a reasonable thorough examination of the joints.
2. Perform a reasonable thorough rheumatologic history.
3. Recognize significant abnormalities when they are found and apply them to a differential diagnosis of rheumatologic conditions.
4. Describe in some detail certain rheumatologic conditions.
5. Identify treatment programs and drugs for the rheumatologic diseases.
6. Describe rheumatologic procedures (e.g., joint taps, synovial biopsies, polarizing microscopic use, etc.)
7. Identify and explain the special laboratory tests available (FANA;s rheumatoid factor etc.).
8. Learn x-ray interpretation of joint abnormalities.

Course Specifics

Report First Day	Springfield Medical Center, 6501 Loisdale Ct, Springfield, VA 22150 Please email beforehand for details.
Student Efforts	100% outpatient
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

DEPARTMENT OF INTERNAL MEDICINE:

SLEEP MEDICINE

Course Information

Course Director	Sarah M. Richey, MD	Course Categories	AMB, Elective
Location	201 N. Washington Street, Falls Church, VA 22046	Main Contact	Jonathan Holland
Period Offered	August, October, December-February, April	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Students will be exposed to diagnostic work-us and treatment of patients presenting with sleep disorders. During the elective, students will participate in the work-up and treatment of patients presenting with sleep apnea, narcolepsy, insomnia, restless legs syndrome and parasomnias. Students will review in-lab polysomnographic data, ambulatory sleep study records and multiple sleep latency tests.

Course Objectives

1. Become knowledgeable concerning the differential diagnosis of patients presenting with sleep disorders.
2. Become familiar with the technical procedures of a diagnostic polysomnogram, both in-lab and ambulatory.
3. Develop skill at taking and presenting a sleep history.
4. Gain familiarity with the reading of polysomnographic records.
5. Become familiar with the pharmacological, surgical, dental, medical and behavioral treatments of sleep disorders.

Course Specifics

Report First Day	Falls Church Kaiser Permanente Medical Center, 201 N. Washington Street, Falls Church, VA 22046, 1st Floor, Sleep Medicine Clinic. Ask for Dr. Richey.
Student Efforts	Patient Contact: 100% Outpatient; 35 hrs/wk faculty contact time; 5 hrs/wk study/reading time; 1 hr/wk other; 15-20 min lunchtime presentation by student once a week followed by discussion
Evaluation	100% Clinical Evaluation
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Nancy Morewitz, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital EVMS Sleep Medicine at Fort Norfolk Plaza	Main Contact	Nancy Morewitz, MD
Period Offered	July-March	Contact Email	
Duration	4 weeks	Contact Phone #	
Restrictions	n/a	Pre-Requisites	None
# of Students	1	Night Call	Required to come in one night to directly observe a sleep study

Course Description

The course will expose students to diagnostic work-ups and treatment of patients presenting with sleep disorders. During the four-week elective, students will participate in the work-up and treatment of patients presenting with sleep apnea, narcolepsy, insomnia, restless legs syndrome and parasomnias. Students will review polysomnographic records, multiple sleep Latency Tests, and performance on driving simulator. Student will present patients at weekly patient staffings, and assist in the formulation of a diagnosis and treatment plan. The student will follow patients for the duration of the course. The student will be encouraged to present at least one article at a journal club meeting. The course will require interaction with the disciplines of Dentistry Maxillofacial Surgery, Medicine, Neurology, Otolaryngology, Psychiatry, and Psychology.

Course Objectives

1. To become knowledgeable concerning the differential diagnosis of patients presenting with sleep disorders.
2. To become familiar with the technical procedures of a diagnostic polysomnogram.
3. To develop skill at taking and presenting a sleep history.
4. To gain familiarity with the reading of polysomnographic records.
5. To become familiar with pharmacological, surgical, dental, medical and behavioral treatments of sleep disorders.

Course Specifics

Report First Day	The student should report to the EVMS Sleep Disorders Center Suite 670 on the 6th floor of Fort Norfolk Plaza 301 Riverview Avenue at 7:30am. He/she should park on level P7 if they decide that they will drive to the SDC.
Student Efforts	80% clinical contact, 20% study/reading time
Evaluation	Clinical observation based on the aforementioned objectives (20% each)
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Members of the Neurology Department are involved in the education of both medical students and residents, offering preclinical and clinical instruction in neuroscience, physical examination and diagnosis, teaching conferences and elective rotations.

The Neurology Department also conducts research regarding neurological complications of diabetes, management of stroke and epilepsy, and headaches and seizures in children.

THE CHAIRMAN OF NEUROLOGY: DANIEL COHEN, MD

Course Information

Course Director	Michael R. Wagner, MD, Capt, MC, USN	Course Categories	AMB, Elective
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description

While rotating with the Neurology service, the student will be primarily attached to the Consultation Service and will evaluate both outpatients and inpatients as well as follow selected inpatients under the direct supervision of an attending neurologists. There will be ample time for independent study and it is expected that a brief text on the clinical exam will be read. Attending physicians will work closely with the student both on rounds and one on one.

Course Objectives

1. Demonstrate competence in the neurologic examination, including assessment of mental status, cranial nerves, motor system, reflexes, and sensation
2. Identify disorders of gait and coordination
3. Perform the initial assessment including history and clinical presentation and development of differential diagnoses of patients referred for common neurologic disorders including headache, cerebrovascular disease, seizure disorders, dementia, coma, demyelinating disease, extrapyramidal diseases, and peripheral neuropathy
4. Understand the diagnostic workup, management, and follow-up of more complex inpatient neurologic conditions
5. Understand the role of the consultant

Course Specifics

Report First Day	Graduate Medical Education Office, BLDG 3, 3rd Floor at 0800 on first day of rotation for check-in documents.
Student Efforts	Patient Contact: 40% Inpatient, 60% Outpatient; 10 hrs/wk study/reading time; 10 hrs/wk rounds; 5 hrs/wk conferences/lectures; 4 hrs/wk faculty contact time
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Naval Medical Center Portsmouth
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Course Information

Course Director	Svinder S. Toor, MD	Course Categories	Elective
Location	Neuro-Developmental Center, 850 Southampton Blvd, Norfolk Children’s Hospital of The Kings Daughters	Main Contact	Svinder S. Toor, MD
Period Offered	Continuously	Contact Email	svinder.toor@chkd.org
Duration	4 weeks	Contact Phone #	757-668-9920
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective provides clinical practice in child neurology. The student will see inpatient consultations, review and follow all neurology patients admitted and assist in neurology clinic. Mini-reports appropriate to material seen may be required.

Course Objectives

1. Understand the basic principles of the neurologic examination including history taking
2. Make use of basic physiologic concepts in the evaluation and suggested management of patients with neurologic disorders.
3. To learn the indications for referral of patients with neurologic illness to the surgical subspecialties.
4. To learn the indications for ordering and evaluating students on patients with neurologic disorders.
5. Practice basic physical examination skills as they pertain to a patient with a neurologic disorder and to relate findings to the type of disorder the patient presents and the location of any lesion.
6. To become familiar with basic neurodiagnostic techniques.

Course Specifics

Report First Day	Call to arrange
Student Efforts	Patient Contact: 75% Inpatient, 20% Outpatient; 12 hrs/wk rounds; 6 hrs/wk conferences; lectures; 12 hrs/wk study/reading time; 25 hrs/wk faculty contact time
Evaluation	100% clinical observation
Other	Student will rotate with the attending neurologist for the month

Site Compliance Requirements

Hospital 1	Children’s Hospital of The Kings Daughters
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Course Information

Course Director	Daniel Cohen, MD	Course Categories	Elective
Location	Sentara, all regional locations Chesapeake Regional Medical Center	Main Contact	Daniel Cohen, MD
Period Offered	Continuously	Contact Email	cohend@evms.edu
Duration	4 weeks	Contact Phone #	757-388-6105
Restrictions	n/a	Pre-Requisites	None
# of Students	1-2 per block	Night Call	No

Course Description

Clinical neurology in the outpatient and inpatient settings in cooperating hospitals. The students will evaluate and follow neurology consultations in the hospital and assist in the neurology clinic. Specific reviews of various neurological illnesses will be made.

Opportunities exist for observation in diagnostic laboratories (e.g. Epilepsy Monitoring Unit, Autonomic Lab, EMG Lab, Music Medicine, etc.)

Course Objectives

The primary goal will be to acquire competence in the performance of the neurological examination, i.e., assessment of mental status, cranial nerves, coordination/station/gait, motor system, reflexes, and sensation. A secondary objective will be to obtain exposure to common neurological conditions such as headache, cerebrovascular disease, seizure disorders, dementia, coma, demyelinating disease, extrapyramidal disease, and peripheral neuropathy.

Course Specifics

Report First Day	Email Dr. Cohen to arrange
Student Efforts	Primarily outpatient with some inpatient opportunity
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Sentara, Leigh Hospital
Hospital 3	Sentara, Princess Anne Hospital
Hospital 4	Sentara, Virginia Beach General Hospital
Hospital 5	Sentara, OBICI Hospital
Hospital 6	Sentara, Careplex
Hospital 7	Chesapeake Regional Medical Center

Welcome to the EVMS Obstetrics and Gynecology. We offer a broad spectrum of obstetrical and gynecological health care services and our world class team of physicians, educators, and researchers is dedicated to improving quality of life for women of all ages.

Our mission:

- To provide the highest caliber health care and patient services available to women in southeastern Virginia and northeastern North Carolina.
- To serve the community through advanced biomedical research and outreach educational programs benefiting our women patients.
- To educate medical students, residents, fellows, and community faculty on issues regarding all aspects of obstetrics, gynecology, women's health, and preventive health care measures.



ALFRED ABUHAMAD, MD

Our faculty is committed to pursuing our mission at the highest levels and many are recognized nationally/internationally for their efforts. Our pioneering research in reproductive medicine is recognized globally, our ultrasound research in Maternal-Fetal Medicine is among the most advanced in the world, and our other specialty divisions are also active in cutting edge clinical research. Our goal is to provide a first class training and research experience for future obstetricians and gynecologists, preparing them equally well for both academic and private pursuits.

If you are interested in our program, consider applying for one of the M4 Electives in the Department of OB-GYN. Electives can be offered almost any time of year, as the schedules are not strictly established. Current EVMS students have priority, and they fill on a first-come, first-served basis. The full elective is four weeks long, but exceptions can be made for two weeks of credit if this works better with your schedule.

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/obstetrics_gynecology/

Course Information

Course Director	Gloria Too, MD	Course Categories	AI
Location	Sentara, Norfolk General Hospital	Main Contact	Tara Chauhan
Period Offered	Continuously	Contact Email	chauhatp@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7902
Restrictions	Blocks 1 – 6 only open for students pursuing Ob/Gyn Residency Training	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

This elective permits the assumption of greater patient responsibility on the part of the medical student both in the outpatient and inpatient settings. This elective is recommended if a student is interested in pursuing a residency in OB/GYN and desire more in depth exposure to the specialty. The faculty will be pleased to attempt to tailor a program to the student’s particular interest, but the basic usual expectation should be advanced clinical management and reinforcement of cognitive material and problem solving skills. The student will function as an “acting intern.”

Course Objectives

1. To increase and reinforce the basic core knowledge of Obstetrics and Gynecology as detailed in clerkship objectives.
2. To increase skills in clinical evaluation and management judgments.
3. To increase technical skills in Obstetrics and Gynecology.
4. To gain greater competence in both acute inpatient ambulatory care and treatment.

Course Specifics

Report First Day	EVMS Hofheimer Hall, third floor, 8:00 am
Student Efforts	Patient Contact: 80% Inpatient, 20% Outpatient; 5 hrs/wk rounds; 5 hrs/wk conferences/lectures; 10 hrs/wk study/reading time; 5 hrs/wk faculty contact time
Evaluation	35% oral exam/case presentation; 65% clinical observation
Other	Students interested in Obstetrics and Gynecology as a career choice should contact Dr. Too regarding electives and regarding residency application. Along with the elective application you must submit a school transcript, resume and personal statement

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Toriseju D. Whyte, MD	Course Categories	AMB, Elective
Location	6501 Loisdale Court, Springfield VA 22150	Main Contact	Jonathan Holland
Period Offered	March-April	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective permits the assumption of greater patient responsibility on the part of the medical student both in the outpatient and inpatient settings. This elective is recommended if a student is interested in pursuing a residency in Ob/Gyn and desire more in depth exposure to the specialty. The faculty will be pleased to attempt to tailor a program to the student’s particular interest, but the basic usual expectation should be advanced clinical management and reinforcement of cognitive material and problem solving skills.

Course Objectives

1. Be cognizant of the social and health policy aspect of women’s health (ethical issues, sterilization, abortion, domestic violence; adolescent care regarding STDs, contraception and pregnancy).
2. Conduct a medical interview and accurate physical exam with emphasis on obstetrics and gynecology.
3. Understand current contraceptive technology.
4. Provide a differential diagnosis of an ‘acute abdomen’- pelvic infection, ectopic pregnancy, adnexal torsion, appendicitis, diverticulitis, renal calculi, etc.
5. Gain greater competence in both acute inpatient (when appropriate) and ambulatory care treatment

Course Specifics

Report First Day	Please call before arrival to established location
Student Efforts	
Evaluation	65% Clinical Observation; 35% Oral Exam
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Silvina Bocca, MD, PhD, HCLD	Course Categories	Elective
Location	The Jones Institute for Reproductive Medicine	Main Contact	Silvina Bocca, MD, PhD, HCLD
Period Offered	July - October, December-May	Contact Email	boccas@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7119
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The experience teaches introductory concepts of homeostasis, hormone synthesis, structure/function and hormonal signal transduction; the key hormones and growth factors and their roles in reproduction; basic female and male reproductive anatomy; physiology of the ovulatory cycle, menstruation and menopause; pharmacological control of follicular development of fertility treatment and contraception; disorders of fertility and pathology of the reproduction system; ovarian stimulation protocols; and the role of GnRH agonists and antagonists in ART.

There is opportunity to be involved with surgery depending on experience and desire of the student.

Course Objectives

1. To obtain history and physical exam from patients in the clinic under the supervision of the attending physician and learn work-up and patient management. These types of patients include basic infertility patients, premature ovarian failure, IVF patients, patients with menstrual disturbances, (amenorrhea, DUB, PCOS, PMS), recurrent miscarriages, mullerian anomalies, pubertal disorders, menopausal problems, PMS, patients with contraceptive needs, and cancer patients seeking fertility preservation.
2. To be proficient with the following procedures in the clinic – IUI, transvaginal ultrasound (2D and 3D), hydrosonegogram, hysterosalpingogram, endometrial biopsy, and ovulation induction with clomid, femara and gonadotropins.
3. To understand the basic steps involved in the performance of the following procedures: TESA and TESE, IUI, cryopreservation, semen preparation, semen analysis, PGD, PGS.
4. To assist in the OR with the attending and fellow on laparoscopies, daVinci assisted laparoscopies, endometriosis surgery, laparotomies, myomectomies, hysteroscopies with resection of polyps, fibroids, vaginal and uterine septi, IVF retrieval and transfers, etc.
5. To attend noon conferences, Journal Club (last Monday of the month, 5-7 pm) and Ob/Gyn Dept. Grand Rounds (Thursday, 8 am).
6. To know how to evaluate the endocrine status by clinical skills, BBT, cervical mucus and vaginal smere.
7. To understand the principles of selectively ordering a laboratory test for the differential diagnosis of reproductive endocrine problems.

Course Specifics

Report First Day	The Jones Institute Building, 601 Colley Ave, Norfolk, VA 23507. (757) 446-7100, First Floor, Nurses Station; ask for the “first year fellow” for orientation.
Student Efforts	Patient Contact: 100% Outpatient; Inpatient care: if student participated in surgery.
Evaluation	100% clinical observation
Other	Students interested in Obstetrics and Gynecology as a career choice should contact Dr. Too regarding electives and regarding residency application. Along with the elective application you must submit a school transcript, resume and personal statement Textbook: Clinical Gynecologic Endocrinology & Infertility by Speroff, et.al., 7th edition, 2004, Lippincot, Williams and Wilkins.

Site Compliance Requirements

Hospital 1	Non-Hospital Experience unless participating in surgery
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Course Information

Course Director	Camille Kanaan, MD	Course Categories	AI
Location	EVMS Hofheimer Hall Sentara, Norfolk General Hospital	Main Contact	Tara Chauhan
Period Offered	Continuously	Contact Email	chauhatp@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7902
Restrictions	Blocks 1 – 6 only open for students pursuing Ob/Gyn Residency Training	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

The student will participate in the care of the high risk obstetrical patient, working directly with the faculty members of the Division of Maternal-Fetal Medicine and the residents on the Academic Obstetrics Service at Sentara Norfolk General Hospital. In-patient care is stressed. However, the student will attend patients at a weekly high-risk clinic and participate in outpatient high risk ob clinic and ultrasound. At the completion of the elective, the student should have an understanding of the approach to diagnosis (including special laboratory and ultrasound) and decision-making in complicated obstetrics.

Course Objectives

1. To become familiar with the terminology, diagnostic tests and management procedures as applied to the common complications of pregnancy:
 - a. pre-term labor
 - b. premature rupture of membranes
 - c. hypertensive disease
 - d. diabetes in pregnancy
2. To become familiar with and have hands-on experience with a portable real-time ultrasound unit as used in obstetrics.
3. To attend patients in a high-risk clinic and present their cases at conference.

Course Specifics

Report First Day	EVMS Maternal-Fetal Medicine Office at Hofheimer Hall, third floor 8:00 am
Student Efforts	Patient Contact: 80% Inpatient; 20% Outpatient; 5 hrs/wk rounds; 5 hrs/wk conferences; 10 hrs/wk study/reading time; 5 hrs/wk faculty contact time
Evaluation	35% oral exam/case presentation; 65% clinical observation
Other	Students interested in Obstetrics and Gynecology as a career choice should contact Dr. Too regarding electives and regarding residency application. Along with the elective application you must submit a school transcript, resume and personal statement

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Peter Takacs, MD	Course Categories	Elective
Location	EVMS Hofheimer Hall	Main Contact	Tara Chauhan
Period Offered	September, December, February- May	Contact Email	chauhatp@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7902
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Experience in urogynecology in an office and hospital setting. Hands on experience in the operating room in a supervised setting. Management of outpatient urodynamic testing and other evaluations pertinent to the patient with urinary incontinence.

Course Objectives

1. Basic knowledge in the diagnosis and treatment of female incontinence and related issues.
2. Basic knowledge in operative techniques including cystoscopy.
3. Improve ability to perform pelvic exams in an office setting.
4. Basic knowledge of urodynamic testing.

Course Specifics

Report First Day	Hofheimer Hall, 8:00 am
Student Efforts	Patient Contact: 30% inpatient, 70% outpatient; 30-40 hrs/wk faculty contact; 12 hrs/wk surgery.
Evaluation	35% oral exam/case presentation; 65% clinical observation
Other	Students interested in Obstetrics and Gynecology as a career choice should contact Dr. Too regarding electives and regarding residency application. Along with the elective application you must submit a school transcript, resume and personal statement

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Gloria Too, MD	Course Categories	AMB
Location	EVMS Hofheimer Hall Sentara, Norfolk General Hospital	Main Contact	Tara Chauhan
Period Offered	August, October, December, February, April-May	Contact Email	chauhatp@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7902
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

The purpose of this elective is to provide the students with further experience in inpatient and outpatient benign gynecology. The student will function as a "sub-intern" in the diagnosis, evaluation and treatment of women with various gynecologic problems. It will include both inpatient and outpatient experiences, with participation in clinics, gynecologic surgeries, and on-going inpatient care.

Course Objectives

1. To increase knowledge and experience in the differential diagnosis and management of benign gynecologic diseases.
2. To gain practical experience with pelvic examination and other GYN office procedures.
3. To gain experience with other modalities of outpatient and inpatient evaluation of common gynecologic problems.
4. To learn the indications for gynecologic surgical procedures.

Course Specifics

Report First Day	Meeting time and place will be determined by the Chief Resident
Student Efforts	Patient Contact: 100% Outpatient; 2 hrs/wk rounds; 3-4 hrs/wk conferences; at least 10 hrs/wk faculty contact time
Evaluation	75% clinical observation, 25% written and oral presentation
Other	Students interested in Obstetrics and Gynecology as a career choice should contact Dr. Too regarding electives and regarding residency application. Along with the elective application you must submit a school transcript, resume and personal statement

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Joseph Hudgens, MD	Course Categories	AI
Location	EVMS outpatient offices Sentara, Norfolk General Hospital Sentara, Princess Anne Hospital	Main Contact	Tara Chauhan
Period Offered	Continuously	Contact Email	chauhatp@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7902
Restrictions	Blocks 1-4 priority is given to EVMS students pursuing OB-GYN residency	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

The Acting Internship (AI) experience is designed to encourage senior medical students to assume patient care responsibilities similar to those of an intern (PGY-1 resident), including night call.

This course is designed for students pursuing a surgical career who are interested in increasing their knowledge of pelvic anatomy and fundamental surgical skills with an emphasis in minimally invasive surgery. The student will complete a structured curriculum that includes pelvic anatomy, surgical instrumentation, surgical energy, & fundamental laparoscopic skills. The student will participate in clinical activities including observation in the operating room one and one half days per week and will be involved in direct patient care two half days in outpatient gynecology clinics. The remainder of the time will be in self-directed study and surgical simulation skills. The student will be assigned a mentor from the Gynecology Division to supervise the completion of the course.

Course Objectives

By the completion of this rotation the medical student should be competent in the following:

1. Describe the key pelvic anatomic land marks and anatomic relationships of the pelvis
2. Assess these land marks in both pelvic exam and surgical settings as they relate to the pathophysiology, evaluation and treatment of gynecologic disease
3. Identify the surgical instruments and equipment commonly used in gynecologic procedures
4. Describe the use of surgical energy in relation to gynecologic surgery
5. Describe and employ basic dissection techniques use in gynecologic and minimally invasive surgery
6. Describe the critical steps necessary in following the patient through the surgical process including pre-operative assessment in the clinical setting, pre-operative evaluation and planning the day of surgery, intraoperative planning, and post-surgical care
7. Develop an evaluation and treatment algorithm for assessing patients with complex gynecologic pathology to include patient history, physical exam, employing and interpreting appropriate diagnostic studies, and developing an appropriate management plan

Course Specifics

Report First Day	EVMS Hofheimer Hall
Student Efforts	Patient Contact: 50% Inpatient; 50% Outpatient; 5 hrs/wk rounds; 5 hrs/wk conferences/lectures; 10 hrs/wk study/reading time; 5 hrs/wk faculty contact time
Evaluation	15% final multiple choice exam; 10% weekly exams; 10% final oral exam; 25% clinical observation; 40% required lab sessions
Other	

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Sentara, Princess Anne Hospital

Course Information

Course Director	Kindra Larson, MD and Beth Levin, MD	Course Categories	AI
Location	EVMS outpatient offices Sentara, Norfolk General Hospital Sentara, Princess Anne Hospital	Main Contact	Tara Chauhan
Period Offered	Continuously	Contact Email	chauhatp@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7902
Restrictions	Blocks 1-4 priority is given to EVMS students pursuing OB-GYN residency	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

The Acting Internship (AI) experience is designed to encourage senior medical students to assume patient care responsibilities similar to those of an intern (PGY-1 resident), including night call.

This course is designed for students pursuing a surgical career who are interested in increasing their knowledge of pelvic anatomy and fundamental surgical skills with an emphasis in minimally invasive surgery. The student will complete a structured curriculum that includes pelvic anatomy, surgical instrumentation, surgical energy, & fundamental laparoscopic skills. The student will participate in clinical activities including observation in the operating room one and one half days per week and will be involved in direct patient care two half days in outpatient gynecology clinics. The remainder of the time will be in self-directed study and surgical simulation skills. The student will be assigned a mentor from the Gynecology Division to supervise the completion of the course.

Course Objectives

By the completion of this rotation the medical student should be competent in the following:

1. Manage common outpatient obstetric and gynecologic problems
2. Perform routine gynecologic examinations, Pap smears, and gynecologic biopsies
3. Identify the surgical instruments and equipment commonly used in gynecologic procedures. Basic knowledge of operative techniques, including: cystoscopy, hysteroscopy, and laparoscopy.
4. Describe the critical steps necessary in following the patient through the surgical process including pre-operative assessment in the clinical setting, pre-operative evaluation and planning the day of surgery, intraoperative planning, and post-surgical care
5. Develop an evaluation and treatment algorithm for assessing patients with complex gynecologic pathology to include patient history, physical exam, employing and interpreting appropriate diagnostic studies, and developing an appropriate management plan
6. Basic knowledge of urodynamic testing

Course Specifics

Report First Day	EVMS Hofheimer Hall
Student Efforts	Patient Contact: 60% Inpatient; 40% Outpatient; 5 hrs/wk rounds; 5 hrs/wk conferences/lectures; 10 hrs/wk study/reading time; 5 hrs/wk faculty contact time
Evaluation	80% clinical observation; 20% oral exam/case presentation
Other	

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Sentara, Princess Anne Hospital

Course Information

Course Director	Steve Warsof, MD	Course Categories	Elective
Location	EVMS Hofheimer Hall Riverside Regional Medical Center Sentara, Princess Anne Hospital	Main Contact	Steve Warsof, MD
Period Offered	August, December, March, May	Contact Email	warsofsi@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7902
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Although exposed to the general “concepts” of genetic risk assessment in the third year clerkship, the majority of students have little experience with medical genetics as practiced. The goals of the elective will include observation of genetic counseling, risk assessment calculation, counseling regarding prenatal diagnosis options, prenatal screening to include noninvasive prenatal testing of fetal aneuploidy (NIPT), population based carrier screening, ultrasound assessment of fetal anomalies (and their implications), teratogen exposure in pregnancy and recurrence risk.

Course Objectives

1. To increase knowledge and experience in the differential diagnosis and management of reproductive genetic disease.
2. To gain practical experience with obstetric ultrasound.
3. To learn the indications for prenatal diagnosis.

Course Specifics

Report First Day	Maternal-Fetal Medicine, Hofheimer Hall, 8:30 a.m., 3rd Floor
Student Efforts	Patient contact: 95% outpatient, 5% inpatient, 2-4 hrs/wk in conferences; A large amount of faculty contact time.
Evaluation	65% clinical observation; 35% case presentation
Other	Students interested in Obstetrics and Gynecology as a career choice should contact Dr. Too regarding electives and regarding residency application. Along with the elective application you must submit a school transcript, resume and personal statement

Site Compliance Requirements

Hospital 1	Sentara, Princess Anne Hospital
Hospital 2	Riverside Regional Medical Center

Course Information

Course Director	David F. Archer, MD	Course Categories	Elective, Scholarly Activity
Location	Jones Institute for Reproductive Medicine	Main Contact	David F. Archer, MD
Period Offered	September, December	Contact Email	archerdf@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7444
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective is offered to fourth year medical students who have an interest in performing clinical research. The outcome is to familiarize the student with the appropriate method of approaching the clinical problem and the organization that is require to develop a grant or write the protocol for the research. The student will be required to work independently with oversight and has the following tasks to perform within the 4 week period. She/He identifies a topic area and hypothesis or question with Dr. Archer. The student then develops either a grant or protocol for the selected topic (see below items 1 and 2). The Student is required to provide a written report of the grant/protocol at the end of the rotation. The Background information relevant to the topic with published and anticipated outcomes and interventions if known will be the topic of a 20 to 30 minute power point presentation at the conclusion of the elective.

Activities:

1. Develop a grant proposal using PHS 398 the NIH Grant outline for the topic. This involves researching the background using PubMed, identifying and reviewing relevant articles, and forming a hypothesis that can be tested. The Background, Specific Aims and outcomes will then be developed using the PHS 398 outline.
2. Develop a Clinical Protocol: The project will require a literature review on the clinical question with identifying and reviewing the relevant literature. The protocol will be developed using a standard outline to include the Background, Rationale for the Study, Inclusion and Exclusion Criteria, Specific visits and procedures to be performed, outcomes to be obtained, design of Case report forms/ data collecting instruments, and Statistical analysis of the obtained data.
3. A written report and a power point presentation of the activities will be required at the conclusion of the elective.

Course Objectives

1. The Student is expected to develop a focused research objective and develop the approach to carry out the plan in consultation with the Faculty.
2. The grant/protocol will provide the student with an outline that is appropriate for a grant or protocol that can be used to investigate the hypothesis.
3. The written report and power point presentations will enhance the communication skills of the student.

Course Specifics

Report First Day	Jones Institute, second floor, room 241, 9:00 a.m.
Student Efforts	Patient Contact: Nil. Faculty contact daily (15% of effort) based on relevant activity. Review of relevant information and development of the grant/protocol (80% effort), Interview Clinical Research Center Staff (2% effort), and Power point presentation (3% effort).
Evaluation	The course evaluation and grade will be based on the following items. <ol style="list-style-type: none"> 1. The clinical protocol/grant development will be evaluated on the students understanding of the problem, methods to be used to address the problem and thoroughness of the protocol. The ability to work independently with minimal direction and the ability to integrate the research background into a clinically relevant grant/protocol will contribute 70% of the grade 2. The power point presentation will be evaluated by the attendees. 15% of grade 3. Professionalism- attendance, work ethic-research endeavor, use of facilities-EVMS library and search engines, interaction with staff, and over all progress in developing the clinical protocol will be assessed weekly at progress meetings with Dr. Archer. 15% of grade
Other	Students interested in Obstetrics and Gynecology as a career choice should contact Dr. Too regarding electives and regarding residency application. Along with the elective application you must submit a school transcript, resume and personal statement

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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Course Information

Course Director	Gloria Too, MD	Course Categories	Elective
Location	EVMS Hofheimer Hall	Main Contact	Tara Chauhan
Period Offered	August, October, February, April, May	Contact Email	chauhatp@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7902
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will actively participate in the planning, coordinating, and successful execution of various educational activities of the third year OB-GYN clerkship; and participate in educational and/or clinical research under the direction of Dr. Too and her appointed clinical research supervisors. Included duties with respect to the third year clerkship include, but are not limited to, assisting with orientation, suture workshops, simulation training, updating and proctoring the clerkship mid-term examination, development and testing of objective structured clinical exams (OSCE's), standardized patients (SP's) and other teaching responsibilities as directed by Dr. Too.

Course Objectives

1. To increase and reinforce the basic core knowledge of Obstetrics and Gynecology through teaching and educational research.
2. To develop academic medical skills by actively participating in the formal educational process of junior medical students.
3. To become familiar with the rigors of clerkship scheduling, proctoring, and question and examination development.
4. To gain competence in educational and/or clinical research by exposure to ongoing research projects in the Department of Obstetrics and Gynecology.
5. To increase clinical knowledge and competence in Obstetrics and Gynecology through continued clinical interaction with faculty and patients.

Course Specifics

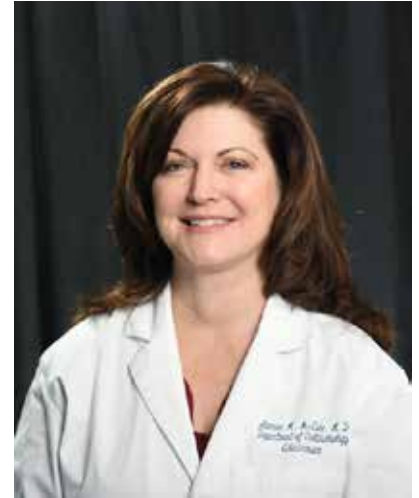
Report First Day	Maternal-Fetal Medicine, Hofheimer Hall, 8:30 a.m., 3rd Floor
Student Efforts	10 hrs/wk proctoring, participating in workshops, teaching; 10 hrs/wk preparation time; 10 hrs/wk faculty contact time; 10 hrs/wk research experience.
Evaluation	75% Clinical Evaluation, 25% Student (3rd year clerks) evaluation
Other	Students interested in Obstetrics and Gynecology as a career choice should contact Dr. Too regarding electives and regarding residency application. Along with the elective application you must submit a school transcript, resume and personal statement

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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Established in 1976 by its founding chair, Dr. William Humphrey, and a group of dedicated community ophthalmologists, the EVMS Ophthalmology Residency Program started as a community based training program to meet the needs of the rapidly growing population in Hampton Roads.

Since that time, the Ophthalmology Residency Program has experienced tremendous growth in its academic, clinical and research programs. The program offers an outstanding, well balanced exposure to all aspects within the field of Ophthalmology including: Cornea and external disease, Cataract, Glaucoma, Pediatrics, Uveitis, Retina, Neuro-Ophthalmology, Oculoplastics and Ocular Pathology. With over 30 community faculty members and three research faculty members, the wealth of expertise available to the program is outstanding. The majority of the clinical experience occurs at Sentara Norfolk General Hospital and the Hampton VA Medical Center. The residents also rotate at several faculty members private offices during their subspecialty exposure. The curriculum is further augmented by rotations at CHKD. The personalized attention received by the residents, along with an exceptional breadth of eye pathology exposure, with one resident to 247K population, distinguishes this unique program.



SHANNON MCCOLE, MD

The program offers extensive exposure to ocular trauma and emergencies through its association with the Level 1 trauma center at Sentara Norfolk General Hospital. The Lions Center for Sight, located within Norfolk General Hospital, is the primary site of the resident eye clinic. The on campus Thomas R. Lee Center for Ocular Research offers exceptional opportunities for resident research. Residents regularly present papers and research projects at local and national meetings.

The three year residency program is fully accredited by the ACGME. Residents enter the program after completing a year of internal medicine, surgery or a rotating internship. The program receives over 300 applications annually, through the SF Match program, for its two first year ophthalmology resident positions. About half the residents graduating from the program pursue fellowship training.

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/ophthalmology/

Course Information

Course Director	Shannon McCole, MD	Course Categories	AMB
Location	Sentara Norfolk General Hospital Children's Hospital of The Kings Daughters	Main Contact	Traci Pugh
Period Offered	August-November, January-May	Contact Email	pughtm@evms.edu
Duration	2 or 4 weeks	Contact Phone #	757-388-0324
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

An introduction to comprehensive and subspecialty ophthalmic practice. Emphasis will be placed on general ophthalmology, acute ocular pathology and trauma, retinal pathology, glaucoma, and pediatrics. The student will work closely with ophthalmology residents as well as faculty. Curriculum can be tailored to the student's particular interests. The rotation will particularly benefit those interested in ophthalmology as a career, as well as other subspecialties including emergency medicine, internal medicine and pediatrics.

Course Objectives

1. To provide the student with a basic understanding of the field of Ophthalmology.
2. To teach the student to perform a basic vision and external ophthalmic exam.
3. The student will be given an opportunity to earn and practice more advanced examination techniques. Including external slit lamp exam, slit lamp fundoscopy and indirect ophthalmoscopy.
4. To introduce the student to ophthalmic subspecialties such as glaucoma, retina, oculoplastics, pediatrics and neuro-ophthalmology.
5. To gain an understanding of the evaluation, diagnosis and management of common medical and surgical ophthalmic conditions.

Course Specifics

Report First Day	Lions Eye Clinic, 8:30 am
Student Efforts	<p>SCHEDULE:</p> <p>Monday: General Clinic at SNGH (8:00 am - 4:00 pm)</p> <p>Tuesday: Subspecialty Clinic at SNGH (8:00 am - 4:00 pm)</p> <p>Wednesday: Surgery at SNGH or CHKD (8:00 am - 4:00 pm)</p> <p>Thursday: Subspecialty Clinic at SNGH (8:00 am - 4:00 pm)</p> <p>Friday: General Clinic at SNGH (8:00 am - 4:00 pm)</p> <p>*Clinics will typically start at 8:30 am with occasional lectures at SNGH at 7:30 am or after clinic. Surgery at CHKD typically begins at 7:30 am. Schedules may vary, students should verify with residents.</p>
Evaluation	Clinical Observation, written examination
Other	<p>Required Educational Materials:</p> <p>Web-based instruction (University of Michigan "The Eyes Have It" www.kellogg.umich.edu/theeyeshaveit/index.html)</p> <p>Suggested Educational Materials:</p> <p>Basic Ophthalmology, Cynthia A. Bradford, Executive Editor, 8th edition, 2004, published by the American Academy of Ophthalmology. ISBN 978-1-56055-361-8.</p> <p>The Physician's Guide to Eye Care, Jonathan D. Trobe, 3rd edition. 2006, published by the American Academy of Ophthalmology.</p> <p>The Eye Exam and Basic Ophthalmic Instruments.</p>

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Children's Hospital of The Kings Daughters

Course Information

Course Director	G. Peyton Neatrou, MD	Course Categories	Elective
Location	Beach Eye Care, 1201 First Colonial Road, Virginia Beach	Main Contact	Trish Stauffer
Period Offered	Continuously	Contact Email	pstauffer@beacheyecare.com
Duration	2 weeks	Contact Phone #	757-425-5550
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per 2-week session	Night Call	No

Course Description

This elective will include exposure to the office practice of ophthalmology and ophthalmic surgery with emphasis on managing and diagnosing common eye diseases.

Course Objectives

1. To observe and learn in an office setting the practice of ophthalmology.
2. To become familiar with the diagnosis and management of infections and minor eye trauma.
3. To learn the basics of taking an ocular history and performing an ocular examination. This will include visual acuity, tonometry, external exam, muscle testing, ophthalmoscopy and slit lamp exam
4. To learn appropriate referral of patients to an ophthalmologist.
5. To correlate eye findings with systemic disease.
6. To become familiar with ophthalmic instrumentation.
7. Audiovisuals will be used to supplement the clinical experience.

Course Specifics

Report First Day	Beach Eye Care
Student Efforts	<p>SCHEDULE:</p> <p>Monday: Dr. Jain: Cataract Surgery/Office</p> <p>Tuesday: Dr. Jain: Cataract Surgery (AM) Dr. Waschler, Clinic (PM)</p> <p>Wednesday: Dr. Neatrou</p> <p>Thursday: Dr. Neatrou: Cataract Surgery</p> <p>Friday: Dr. Neatrou: Clinic (AM) Dr. Neatrou: Refractive Surgery (PM)</p>
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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Course Information

Course Director	John Sheppard, MD	Course Categories	AMB
Location	Virginia Eye Consultants, 241 Corporate Boulevard, Norfolk VA 23502	Main Contact	Karen Fowler
Period Offered	Continuously	Contact Email	kfowler@vec2020.com
Duration	2 weeks only	Contact Phone #	757-226-8021
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

40-50 hour per week clinical rotation with close observation in clinic and OR

Course Objectives

1. Utilize and familiarize the student with basic instrumentation:
 - slit lamp
 - direct ophthalmoscope
 - indirect ophthalmoscope
 - visual field testing
 - rudimentary refraction
2. Understand the scope of ophthalmic practice.
3. Appreciate the unique aspects of referral-only practice.
4. Diagnose and treat common ophthalmic disorders seen in primary care.

Course Specifics

Report First Day	Call to confirm at least two weeks prior to the start of the elective
Student Efforts	Patient Contact: 10% surgery, 90% Outpatient; 10 hrs/wk study/reading time; 1 hrs/wk rounds; 40 hrs/wk faculty contact time; 5 hrs/wk conferences/lectures
Evaluation	75% clinical observation, 25% oral exam
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Our vision is to provide superior quality and personal and compassionate care for our patients. As part of an academic medical center we also endeavor to explore and advance the science of disorders of the ear, head and neck and to provide superior education for medical students and residents. We are dedicated to maintaining personal lifelong scholarship and to actively participate in the education of our patients and their future doctors. We have offices located in Norfolk, Virginia Beach, Chesapeake and Newport News to serve our patients all over Hampton Roads.

Our physicians are fellowship-trained and skilled experts in their chosen subspecialties. They are dedicated to providing superior and compassionate care. Additionally, they actively participate in advocacy, education and research.

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/otolaryngology_ent/



BARRY STRASNICK, MD

Course Information

Course Director	Travis Reeves, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital Children's Hospital of The Kings Daughters	Main Contact	Travis Reeves, MD
Period Offered	Continuously	Contact Email	reevestd@evms.edu
Duration	4 weeks	Contact Phone #	757-388-6200
Restrictions	n/a	Pre-Requisites	None
# of Students	1-2 per block	Night Call	No

Course Description

This elective is designed for the medical student interested in the primary care specialties (family practice, internal medicine, pediatrics) and is oriented toward outpatient services. The student will receive a wide exposure to medical and surgical aspects of diseases of the head and neck in adults and children. Major patient contact will be through the departments clinical offices, hospital clinics, and hospital rounds. There will be selected operating room experience to demonstrate common procedures.

Course Objectives

1. Learn the basics of the ear, nose and throat examination.
2. Diagnose and treat the spectrum of diseases related to chronic serous otitis media, acute otitis media and chronic otitis media.
3. Diagnose and treat the spectrum of diseases in the oral cavity and pharynx (e.g., tonsillitis, adenoiditis and oral/dental diseases).
4. Evaluate and treat nasal/sinus disorders.
5. Learn the basic work-up and follow-up of the head and neck cancer patient and thyroid/parathyroid patient.
6. Diagnose and treat voice and swallowing problems.
7. To understand the basic surgical skills and perioperative problems involved in performing myringotomy, tonsillectomy, sinus and laryngeal endoscopic surgery.

Course Specifics

Report First Day	Students should page the Otolaryngology Chief Resident for instructions the Friday before beginning the rotation. Students will be provided a schedule the week before beginning the rotation.
Student Efforts	Inpatient 30%, Outpatient 70%, conferences three hours per week, hospital rounds four hours per week. Adequate study and reading time provided. Faculty contact 40 hours per week.
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Children's Hospital of The Kings Daughters

Course Information

Course Director	Travis Reeves, MD	Course Categories	AI
Location	Sentara, Norfolk General Hospital Children's Hospital of The Kings Daughters	Main Contact	Travis Reeves, MD
Period Offered	Continuously	Contact Email	reevestd@evms.edu
Duration	4 weeks	Contact Phone #	757-388-6200
Restrictions	n/a	Pre-Requisites	None
# of Students	1-2 per block	Night Call	No

Course Description

This elective offers an orientation to otolaryngology for the future surgeon. An emphasis will be placed on medical and surgical aspects of diseases of the head and neck with the development of specific surgical skills related to these diseases. The course will be divided between operating room experiences and office otolaryngology. The elective will be fashioned to meet the needs of the student, and be tailored toward medical students interested in the Otolaryngology-Head & Neck Surgery residency.

Course Objectives

1. Learn the basics of the ear, nose and throat examination.
2. Diagnose and treat the spectrum of diseases related to chronic serous otitis media, acute otitis media and chronic otitis media.
3. Diagnose and treat the spectrum of diseases related to tonsillitis, adenoiditis and sinusitis.
4. Evaluate and treat nasal/sinus disorders.
5. Learn the basic work-up and follow-up of the head and neck cancer patient and thyroid/parathyroid patient.
6. Diagnose and treat voice and swallowing problems.
7. Develop surgical skills, such as performing myringotomy, tympanostomy tube placement, sinus irrigation, laryngoscopy, wound closure and tracheotomy.
8. To understand practical head and neck anatomy as it relates to the patient with surgical disease.
9. To understand the preop and post-op care of patients with head and neck cancer.

Course Specifics

Report First Day	Students should page the Otolaryngology-Head & Neck Surgery Chief Resident for instructions the week before beginning the rotation.
Student Efforts	Patient Contact: 40% Inpatient, 60% Outpatient, Conferences three hours per week, Rounds 4 hours per week, study and reading time provided. Faculty contact 40 hours per week.
Evaluation	100% clinical observation
Other	Students applying to this department for residency in Otolaryngology-Head and Neck Surgery must submit a C.V. prior to being considered for the elective.

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Children's Hospital of The Kings Daughters

Course Information

Course Director	Michele Morrison, DO	Course Categories	Elective
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 or 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	2 per block	Night Call	No

Course Description

This elective offers a broad and flexible orientation suitable for medical students interested in surgery or the primary care specialties. The student will receive a wide exposure to medical and surgical aspects and diseases of the head and neck in adults and children. All students obtain experience with the diagnosis and initial treatment of head and neck problems commonly encountered by primary care providers. Because the ENT department serves a large and diversified patient population, there is also ample opportunity for more in-depth experience with the complete spectrum of head and neck disorders. The proportion of time each medical student spends in the clinic or operating room will be tailored to emphasize the student's interests.

Course Components and Objectives

- Outpatient evaluation of patients in a busy clinic
 - The student will observe and participate in the care of both routine and unique patients under the guidance of a staff or senior resident otolaryngologist.
- Inpatient management of postoperative and medically treated patients
 - The student will round with one of two teams and may cross teams to round on particularly interesting patients, or those seen in the clinic or operating room.
- Operative experience
 - The student will attend our academic conferences which include Morbidity and Mortality (monthly), Preoperative Conference (weekly), Didactic Lecture (weekly), Tumor Board (bi-monthly), and any of our in-house courses.
- Audiology exposure
 - The student may spend one half day in the audiology department to observe routine audiograms, play audiometry, and ENG's or ABR's if ongoing. Related readings on the indications and interpretation are provided to round out the experience.
- Allergy therapy exposure
 - The student will spend one half day in the allergy clinic observing the interpretation of allergy evaluations, the preparation of therapeutic antigens and the administration of immunotherapy.
- Surgical experience
 - Each student will receive experience and guidance in soft tissue surgical techniques.
- Objectives:
 - Learn the basics of the ear, nose and throat examination.
 - Learn the differential diagnosis and evaluation of rhinitis and nasal obstruction.
 - Learn the diagnosis and treatment of pediatric ear disease and the indications for myringotomy with tympanostomy tubes.
 - Learn the indications for tonsillectomy and adenoidectomy.
 - Learn to diagnose and treat a peritonsillar abscess and other masses of the neck.
 - Learn the initial management of epistaxis and nasal fractures.
 - Learn the differential diagnosis and initial evaluation of the patient with balance disorder.
 - Learn the risk factors for and indicated evaluation of head and neck cancer.
 - Learn the techniques of proper traumatic and surgical wound closure.
 - Learn the systematic management of pediatric and adult upper airway obstruction.

Course Specifics

Report First Day	Graduate Medical Education Office, Bldg. #3, 3rd floor at 8:00 a.m. on first day of rotation for check-in document, before proceeding to Otolaryngology Clinic, Building #2, 2nd Floor
Student Efforts	
Evaluation	100% clinical observation

Site Compliance Requirements

Hospital 1	Naval Medical Center, Portsmouth
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Welcome to EVMS Pathology and Anatomy. The department strives to promulgate the school's vision of "Community Service. World Impact." through innovative educational programs for our medical and graduate students, cutting edge research in neuroscience and community outreach. More information regarding these programs can be found at the links below.

The department is proud to champion ultrasound education in the preclerkship curriculum in addition to providing instruction in anatomy, neuroscience, and pathology in the EVMS integrated Care Forward medical school curriculum. Unique to EVMS is the popular 'Anatomy Guy' website that is used to foster this education and viewed worldwide. The department is also intimately involved in providing the foundational basic science courses for several of EVMS's Master's level programs. In all endeavors, new innovative methods of course delivery and assessment are employed.

Research efforts within the department focus on sleep neurobiology and posttraumatic stress disorder. The department is well-funded in these areas. Collaborations with other departments on stress and neuroimmune interactions and the effects of ionizing radiation on brain function are areas of active investigation. Educational grants have been awarded to department faculty for the development of innovative educational curricula including our 4 year ultrasound curriculum. The department also oversees the EVMS Biorepository which holds over 85,000 specimens available for research by EVMS faculty and collaborators.

The department has a diverse faculty with varied interests in education, research and service. Faculty are active in traveling outside of EVMS to lecture on topics of interest to our community. Many of the seminars and presentations deal with neuroscience, mental health and educational initiatives in the basic sciences.

The department is cognizant of the health needs of our active duty soldiers, veterans and military retirees and is proud to provide faculty support to EVMS's military medicine club and to our students with military commitments. Given the large number of military, veterans and retirees in the Hampton Roads area we look for venues where we can support them through education, research and community service.

Student recognition is another key departmental undertaking. Annually, students are selected for membership in the Association of Pathology Chairs Honor Society, and for graduation awards in anatomy, neuroscience, and pathology. The department also has an outstanding record for recruiting students to pursue postgraduate training in pathology. For the Class of 2014, 7 graduating students out of a class of 124 students pursued pathology residencies, which is well above the national average.

The Department is also proud to have established the Nicholas A. D'Amato M.D. memorial lecture. Dr. D'Amato was a Navy veteran, and long-time EVMS faculty member well versed in anatomy, pathology, medical education and the humanities. Please read more about Dr. D'Amato on this site. Donations to the EVMS Foundation to support the Nicholas A. D'Amato lecture, or to the Pathology and Anatomy Department to fund faculty development as well as faculty and student research are welcomed.

To learn more about the Department, visit http://www.evms.edu/education/centers_institutes_departments/pathology_anatomy/



**RICHARD CONRAN, PHD, MD, JD, FCAP
COL, MC, USA RETIRED**

Course Information

Course Director	Dennis Rowley, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Dennis Rowley, MD
Period Offered	Continuously	Contact Email	
Duration	4 weeks	Contact Phone #	757-388-3221
Restrictions	n/a	Pre-Requisites	
# of Students	1 per block	Night Call	No

Course Description

Anatomic and clinical are offered. Course content can be flexible with regards to student interest in a particular subject matter. Gross and microscopic anatomic pathology will be emphasized. Students may assist in autopsies. Clinicopathologic correlation will be stressed. Sentara Norfolk General Hospital is a private surgical pathology practice which has involvement in academic work. Students will gain experience in utilization of state of the art diagnostic procedures including immuno-peroxidase studies, molecular pathology, and flow cytometric immunophenotyping. Students have the opportunity to explore pathology with regard to possible career choice or to augment knowledge of tissue pathology as it pertains to other specialties such as surgery, oncology, radiology, etc.

Course Objectives

1. Familiarization with the role of the anatomic pathologist.
2. Handling of fresh tissue for pathologic studies.
3. Basic history and microscopic pathology.
4. Appropriate use of intraoperative consultation.
5. Medical autopsy protocol.
6. Review of pathology terminology and concepts with application to clinical settings.

Course Specifics

Report First Day	Department of Pathology, second floor, A-wing
Student Efforts	4 hrs/wk conference & lecture with residents; 15 hrs/wk gross pathology experience; 15 hrs/wk microscopic; 6 hrs/wk special lab experience.
Evaluation	100% Clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Trevor Kuttler, MD	Course Categories	Elective
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	November - May	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description and Objectives

Laboratory medicine is an exciting and broad discipline that includes anatomic pathology (surgical pathology, autopsy pathology and cytology), clinical pathology (hematology, chemistry and microbiology), and transfusion medicine (clinical transfusion medicine and blood banking). The goal of this rotation is to provide an opportunity to learn the functional aspects of each of these areas, the appropriateness of test ordering and the processes involved in arriving at specific diagnoses, thereby fostering understanding and better working relationships between clinicians and the laboratory. Students will have the opportunity to rotate through all of the major areas of the anatomic and clinical laboratories and any other areas of special interest, time permitting.

Requirements

1. Be present each day of the rotation.
2. Participate in department consensus conference.
3. Attend tumor boards as scheduled.
4. Prepare and present a short lecture on a pathology topic to the departmental medical staff.
5. Rotate through each of the laboratory divisions.
6. Participate in autopsies as available.
7. Participate in fine needle aspiration biopsies.
8. Participate in specimen grossing and frozen section diagnoses.
9. Review surgical pathology and cytology cases with staff members.
10. Review clinical laboratory studies with a staff member.
11. Self-study as needed or directed.

Course Specifics

Report First Day	Graduate Medical Education Office, Bldg. #3, 3rd floor at 8:00 a.m. on first day of rotation for check-in documents, before proceeding to Dept. of Laboratory Medicine, Building #2, 1st Floor.
Student Efforts	2-3 hrs/wk conferences/lectures; 5-10 hrs/wk study/reading time; 5-10 hrs/wk faculty contact time; 5-10 hrs/wk performing lab technique/observation
Evaluation	Rotators will be evaluated based on elements of the ACGME defined six core competencies of patient care, medical knowledge, practice-based learning and improvement, interpersonal and communication skills, professionalism, and systems-based practice. In addition to staff observation, there will be an open book quiz with microphotographs at the end of the rotation, as well as a 15 minute didactic presentation by the student on a case/topic of his/her choice.
Other	n/a

Site Compliance Requirements

Hospital 1 | Naval Medical Center Portsmouth

Course Information

Course Director	Wendy Gunther, MD	Course Categories	Elective
Location	Office of the Chief Medical Examiner, 830 Southhampton Avenue, Suite #100, Norfolk	Main Contact	Donna Price
Period Offered	Continuous	Contact Email	donna.price@vdh.virginia.gov
Duration	4 weeks	Contact Phone #	757-683-8366
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description and Objectives

The role of the Medical Examiner in the community is investigating deaths in the public interest of the administration of justice and detecting hazards to public health and safety. Pathology of sudden death and trauma.

Objectives

1. Evaluation of possible pathology from review of historical circumstances surrounding death.
2. Clinico-pathological correlation.
3. To review gross anatomy and gross pathology.
4. Interpretation of trauma and its mechanism of causation of injury and its ultimate pathophysiology.
5. How to testify in court as an expert witness.
6. To become aware of legal consequences of medical practice.

Course Specifics

Report First Day	Report to OCME at 0800 hours with EVMS photo ID. We will supply scrubs. Student supplies autopsy operations appropriate shoes. No jeans, shorts, t-shirts or open-toed shoes. Clothing to be appropriate for court or death scene visitation.
Student Efforts	40 hrs/wk autopsy room: laboratory and court time interspaced with lectures and study/reading.
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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Course Information

Course Director	Paul Aravich, PhD	Course Categories	Elective, Scholarly Activity
Location	EVMS, Lewis Hall	Main Contact	Paul Aravich, PhD
Period Offered	February - May	Contact Email	aravicpf@evms.edu
Duration	4 weeks	Contact Phone #	757-446-5642
Restrictions	n/a	Pre-Requisites	4th year elective objectives form
# of Students	3-6 per block	Night Call	No

Course Description

This elective is designed to combine basic anatomy, physiology and pathology of the nervous system with the clinical experience in neurology and/or neurosurgery. Four sessions of three hours each will be spent as conferences with Dr. Aravich. Student must sign up with neurologist or neurosurgeon of choice who holds an EVMS faculty appointment in addition to signing up with Dr. Aravich.

Course Objectives

Students are required to write a potential residency research proposal based on their specific interests.

A 4th year elective objectives form should be submitted at a minimum 14 days prior to the commencement of the elective to m4@evms.edu

Course Specifics

Report First Day	Arrange with Dr. Aravich
Student Efforts	4 hrs/wk faculty contact time; study/reading time as necessary
Evaluation	Assessment of presentation of seminar topics over a 4 week period
Other	n/a

Site Compliance Requirements

Hospital 1 | Non-hospital Experience

Children's Hospital of the King's Daughters is the focus of all pediatric undergraduate, graduate and post-graduate training.

In addition to over 125 full-time faculty, EVMS Pediatrics also boasts a fully accredited three-year pediatric residency program, providing educational and clinical experiences in all aspects of pediatric medicine for over 50 years.

Post-residency training also exists through EVMS Pediatrics. EVMS and CHKD partner to offer five outstanding pediatric fellowship opportunities:

- Child Abuse
- Emergency Medicine
- Infectious Diseases
- International Peds Emergency Medicine
- Simulation in Medical Education

In addition to serving graduate and post-graduate trainees, EVMS Pediatrics aims to educate pediatric professionals both locally and throughout the country. This is achieved by facilitating:

- Conferences
- Membership organizations (Tidewater Pediatrics Society & Virginia AAP)
- Online Resources

Outside of typical clinical settings, scientific investigation and new discoveries in pediatric medicine are being made within the EVMS Pediatrics laboratories to improve upon the quality of life for children.

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/pediatrics/



CW GOWEN, JR, MD

Course Information

Course Director	C.W. Gowen, Jr, MD	Course Categories	AI
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuous	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	Blocks 2 – 6 priority given to students pursuing Pediatric Residency	Pre-Requisites	None
# of Students	4 per block	Night Call	Yes

Course Description

The Acting Internship (AI) experience is designed to encourage senior medical students to assume patient care responsibilities similar to those of an intern (PGY-1 resident), including night call.

The purpose of this course is to provide the student with the opportunity to further develop his/her clinical skills and knowledge in pediatrics. Under the supervision of the faculty attending and supervising resident, the student will admit patients, perform history and physical examinations, write orders, discuss the case with the supervising resident and attending, make daily rounds with the pediatric team, and perform clinical procedures. This elective is designed to give the student considering a career in pediatrics the opportunity to function as an acting-intern on a pediatric ward and to assess his/her suitability and interest in pediatric residency training.

Course Objectives

By the end of the elective, the student should be able to:

1. Demonstrate the ability to perform a detailed history and physical examination on children and adolescents
2. Will demonstrate the ability to develop a differential diagnosis and to institute a detailed management plan for the pediatric patient
3. Exhibit the skills and knowledge to perform clinical procedures on the pediatric patient such as blood drawing and performing a lumbar puncture
4. Interpret laboratory and radiographic studies.

Course Specifics

Report First Day	Student will be contacted prior to the start of the elective
Student Efforts	Patient Contact: 100% Inpatient; Approx. 10 hrs/week in attending rounds; Approx. 10 hrs/week in conferences/lectures; Approx. 20 hrs/week with faculty contact time; and Approx. 25 hrs/week in patient care.
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Course Information

Course Director	John W. Harrington, MD	Course Categories	AMB
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective is designed to give the student experience in the diagnosis and management of common acute illnesses in children, the essential features of well child and adolescent care including developmental assessment and health maintenance and common long-term illness management of children in the General Academic Pediatrics Outpatient Center. Students will be supervised by the pediatric attending physicians in the General Academic Pediatrics Outpatient Center.

Course Objectives

By the completion of the elective, the student:

1. The student shall demonstrate the skills and knowledge to perform a complete and detailed examination on a well child 0-21 years of age.
2. The student shall become skilled in the performance of a complete developmental assessment on children under five years of age.
3. The student shall demonstrate the skills and knowledge to perform a complete and detailed examination on an acutely ill child or adolescent.
4. The student shall acquire the knowledge to develop a differential diagnosis and to institute a detailed management plan for the most commonly encountered acute illnesses.
5. The student shall become knowledgeable about the functions of the members of the pediatric health care delivery team.

Learning Activities:

- Students will have the opportunity to be closely supervised and assisted by the faculty in the delivery of acute care, well baby care, and general pediatric medicine.
- Participate in continuity clinic curriculum via online <http://pediatrics.evms.edu/residency/passport/index.html>

Course Specifics

Report First Day	General Academic Pediatrics, CHKD, 2nd Floor
Student Efforts	
Evaluation	90% clinical observation, 10% literature review and presentation of clinical topic
Other	n/a

Site Compliance Requirements

Hospital 1 | Children’s Hospital of The Kings Daughters

Course Information

Course Director	Maia Jackson, MD	Course Categories	AMB
Location	10701 Rosemary Drive, Manassas VA 20109	Main Contact	Jonathan Holland
Period Offered	July, September-November, January-May	Contact Email	jonathan.m.holland@kp.org
Duration	4 weeks	Contact Phone #	301-816-5672
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective is designed to give the student experience in the diagnosis and management of common acute illnesses in children, the essential features of well child and adolescent care including developmental assessment and health maintenance and common long-term illness management of children. Students will be supervised by pediatric attending physicians.

Course Objectives

1. Demonstrate the skills and knowledge to perform a complete and detailed examination on a well child, 0–21 years of age.
2. Become skilled in the performance of a complete developmental assessment on children under five years of age.
3. Demonstrate the skills and knowledge to perform a complete and detailed examination on an acutely ill child or adolescent.
4. Acquire the knowledge to develop a differential diagnosis and to institute a detailed management plan for the most commonly encountered acute illnesses.
5. Become knowledgeable about the functions of the members of the pediatric health care delivery team.

Course Specifics

Report First Day	Manassas Medical Center, 10701 Rosemary Dr, Manassas, VA 20109. Please email beforehand for details.
Student Efforts	100% Outpatient
Evaluation	90% Clinical Observation; 10% Oral Exam
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Reuben Rohn, MD	Course Categories	AMB
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1-2 per block	Night Call	No

Course Description

Opportunity to become acquainted with endocrine problems of childhood and adolescence. Students will learn about the more common endocrine problems and how they are managed. They will also learn about the impact of chronic disease on physical and psychosocial-emotional growth.

Course Objectives

By the completion of the elective, the student:

1. Do a comprehensive history and physical exam.
2. Identify the common pediatric endocrine problems and understand the management of those problems.
3. Be able to interpret common endocrine laboratory data.
4. Be able to describe the underlying pathophysiology and biochemistry of common pediatric endocrine disorders.

Course Specifics

Report First Day	Medical Offices, Children’s Hospital of The Kings Daughters, Room 2C-A14
Student Efforts	Patient Contact: 5% Inpatient; 95% Outpatient; 5-10 hrs/wk study/reading time; 30-40 hrs/wk faculty contact time.
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Children’s Hospital of The Kings Daughters

Course Information

Course Director	Rose Cummings, DO	Course Categories	Elective
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This is primarily an outpatient cardiology clinic rotation with opportunities to observe surgeries, TEEs, catheterizations, advanced imaging, and EP studies. The student will learn the clinical signs and symptoms of the major congenital and acquired pediatric cardiac conditions. Self-directed reading of primary articles as well as texts will be required. Relevant EKGs echocardiography, x-rays and physical exam findings will be reviewed.

Course Objectives

By the completion of the elective, the student:

1. Take a detailed cardiovascular history, perform a cardiovascular physical examination, order appropriate tests, and formulate these results into a logical diagnosis and plan of management.
2. Describe the symptoms and physical findings of congestive heart failure in infants and children.
3. Understand the anatomy, pathophysiology, clinical manifestations, natural history and therapeutic management of the more common congenital and acquired heart disease in infants and children.
4. Describe cardiac hemodynamics and be able to correlate these events with physical findings.
5. Interpret pediatric electrocardiograms in relation to age.
6. Recognize on chest x-rays, enlargement of great vessels and heart chambers and changes in pulmonary vascular markings.
7. Have a general understanding of the indications and usage of noninvasive (echocardiogram, exercise stress test) and invasive studies (cardiac catheterization and angiography)
8. Know the basic pharmacology including indications and contraindications for common cardiovascular drugs.

Course Specifics

Report First Day	Cardiology, Children’s Hospital of The Kings Daughters
Student Efforts	Varies with individual student
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Children’s Hospital of The Kings Daughters

Course Information

Course Director	Chris Foley, MD	Course Categories	CC
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	Blocks 2 – 6 only open for students pursuing Pediatric Residency Training	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective is designed to familiarize the student with the subspecialty of pediatric critical care medicine. The student shall become familiar with the management of critically ill children who have a variety of medical and surgical problems. The student will be familiar with the social, ethical and medical-legal issues associated with the practice of critical care. The student will function as a house officer under the direct supervision of the attending and senior residents on the PICU service.

Course Objectives

By the completion of the elective, the student:

1. Understand basic recognition, evaluation and appropriate intervention of an acute life threatening process. The student should develop an appreciation of resuscitative and support skills to achieve the initial stabilization of the critically ill child.
2. Understand basic pathophysiology of critical illness focusing primarily on the central nervous system, pulmonary system, cardiovascular system, hepatic system, renal system, nutrition and shock mechanisms.
3. Understand the basic appreciation of pharmacotherapy in critically ill children.

Responsibilities:

1. The student will follow patients in the PICU under the supervision of a senior pediatric or ER resident and the PICU attending. Students will be expected to admit and work up patients assigned to them by the senior resident or PICU attending. These patients will be followed on a daily basis by the student.
2. Students will be required to present their patients on rounds. They should be able to discuss the patient’s diagnosis and management plan under the supervision of a pediatric senior resident and the PICU attending.
3. Students will be responsible for initial admission notes, writing orders, daily progress notes, and communication with consultants and primary care physicians.
4. Students may be responsible for preparing or assisting with a case conference dealing with specific topics in ICU medicine.
5. Students may have an opportunity to assist or perform procedures in the PICU under the supervision of the PICU attending. Priority for procedures is given to pediatric and emergency medicine residents rotating through the PICU.

Course Specifics

Report First Day	Pediatric Intensive Care Unit, 3rd Floor, CHKD- 7:15 am
Student Efforts	Patient Contact: 100% Inpatient, 10 hrs/wk independent learning; 10 hrs/wk rounds, 20 hrs/wk faculty contact time; 8 hrs/wk conferences.
Evaluation	100% clinical observation
Other	The rotation allows flexibility in order to accommodate opportunities to go on pediatric transports or go into the operating room to observe surgery and/or anesthesia.

Site Compliance Requirements

Hospital 1

Children’s Hospital of The Kings Daughters

Course Information

Course Director	Michelle Clayton, MD, MPH	Course Categories	Elective
Location	Children’s Hospital of The Kings Daughters, Child Abuse Program, 935 Redgate Ave, Norfolk	Main Contact	Patricia Chapman
Period Offered	August - May	Contact Email	Patricia.Chapman@chkd.org
Duration	2-4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	Optional

Course Description

During the child abuse rotation, students will become familiar with the medical and forensic mental health assessment of children with suspected sexual abuse, physical abuse, and/or neglect. Basic knowledge of child abuse pediatrics will be acquired through inpatient and outpatient consultations, scheduled clinics, observation of medical and mental health faculty, attendance at multidisciplinary team meetings and observation of court proceedings.

Course Objectives

By the completion of the elective, the student:

1. Know the general presentations and work-up of child physical abuse cases, including the x-ray appearance of abusive fractures, and be able to formulate a differential diagnosis of suspected abuse injuries.
2. Be able to perform a complete forensic genital examination on male and female children, and use appropriate documentation.
3. Understand the dynamics of parent-child interactions.
4. Understand the dynamics of a forensic interview of a child
5. Understand the importance of domestic violence screening in child abuse.
6. Understand the reporting laws for child abuse.
7. Know the community services available for the investigation and treatment of child abuse cases, including the function of a multidisciplinary team.

Course Specifics

Report First Day	Child Abuse Program, 935 Redgate Avenue
Student Efforts	Patient Contact: 20% inpatient; 80% outpatient; 5-10 hrs/wk study/reading time; 30 hrs/wk faculty contact time; 5-10 hrs/wk conference/lectures; completion of journal article review or Power Point presentation on a child abuse topic.
Evaluation	80% Clinical Observation, 20% literature review and presentation of journal article or Power Point presentation.
Other	n/a

Site Compliance Requirements

Course Information

Course Director	V. Marc Tsou, MD	Course Categories	AMB
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1-2 per block	Night Call	No

Course Description

A comprehensive rotation encompassing all aspects of the discipline of pediatric gastroenterology, hepatology and nutrition. The student will work with all age groups, from newborn to young adult, in the inpatient and outpatient setting. Travel to satellite offices is the student’s option. The student will observe and sometimes assist with procedures, such as endoscopy, dilation and liver biopsy. Attendance at all GI-related conferences and a presentation at the monthly journal club will be expected.

Course Objectives

By the completion of the elective, the student:

1. To learn how to perform a comprehensive history and physical emphasizing all aspects of the gastrointestinal tract.
2. Understand the role of diagnostic testing in problems related to the GI tract.
3. Understand the physiology of the hepatobiliary system, pancreas, stomach, intestinal tract, etc.
4. Become familiar with the pathophysiology of common GI disorders in the pediatric population, such as vomiting, constipation, abdominal pain, diarrhea, hepatitis and inflammatory bowel disease.
5. To learn about nutrition as it relates to disease and health maintenance.

Course Specifics

Report First Day	Pediatric GI Outpatient Suite, 4th floor, CHKD
Student Efforts	Inpatient 20%, Outpatient 80%, 40 hours/week total
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Children’s Hospital of The Kings Daughters

Course Information

Course Director	William Owen, MD	Course Categories	Elective
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	July-December, February-May	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The purpose of this elective is to provide the student with an opportunity for practical application of acquired knowledge and skills pertaining to pediatric hematology/oncology. The student’s clinic time will be spent in the outpatient practice.

Course Objectives

By the completion of the elective, the student:

1. Evaluate a peripheral blood smear.
2. Work up a patient with a solid tumor.
3. Work up suspected anemia, leukemia, and coagulation disorders.
4. Diagnose and treat iron deficiency.
5. Diagnose and outline the management for the various sickle cell related complications.
6. Give the characteristics and common side effects of the chemo-therapeutic agents most often used in pediatric oncology.
7. Describe the principles of comprehensive management of the common pediatric malignancies.
8. Be knowledgeable in the functions of the pediatric hematologist/oncologist and how to consult with one effectively.

Learning Activities:

- Students will review peripheral blood and bone marrow smears on both current patients and learn physiologic aspects of pediatric hematology and oncology.
- Students will participate in the pediatric tumor conferences.
- Students will work closely with faculty and residents on a case basis in the outpatient area.
- Student will receive interactive one on one or small group talks with attending physicians on topics of pediatric hematology/oncology.

Course Specifics

Report First Day	CHKD, Medical Staff Office Suite, 8:00 am (Monday, 7:45 a.m., Hematology/Oncology Clinic)
Student Efforts	100% Outpatient, 30 – 40 hours/week faculty contact time
Evaluation	Clinical observation, written examination, and oral presentation of a topic chosen by student
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Randall Fisher, MD	Course Categories	Elective
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will gain experience in the diagnosis, evaluation, and treatment of infectious diseases in both inpatient and outpatient settings. Inpatient experience is mostly in a consultative role, which allows the student to focus on the infectious disease issues. Work is distributed to maximize learning. Students are encouraged to delve into the literature about patients or conditions they find particularly interesting. The outpatient clinic provides experience with acute infectious problems outside the realm of the generalist’s knowledge. In addition, patients with sub-acute or chronic infections or immune-compromising conditions are followed. Weekly city-wide infectious diseases case conference and weekly division meetings provide additional didactic learning, and contact with many ID-trained sub-specialists.

Course Objectives

By the completion of the elective, the student:

1. Learn how a sub-specialist approaches the history, physical examination, and diagnostic process in patients with infectious diseases.
2. Learn about the appropriate use and interpretation of laboratory tests, including serologic assays, PCRs, and bacterial, fungal, and viral cultures.
3. Understand the basics of anti-microbial use and misuse, including the mechanism of action of various classes of antibiotics, narrow versus broad-spectrum antibiotics and their appropriate uses, and the development of anti-microbial resistance.
4. Learn the basics about maternal-fetal transmission of HIV, care of the HIV-exposed infant, and the day-to-day care of children with HIV infection and AIDS, including the use of anti-retrovirals, rationale for and appropriate use of prophylaxis against opportunistic infections, and the approach to the care of an HIV-infected child with a febrile illness.
5. Understand how a microbiology laboratory functions, how a specimen is processed, and which treatment decisions can be based on data obtained from the microbiology lab.

Course Specifics

Report First Day	Contact Dr. Fisher two weeks prior to the start of the elective
Student Efforts	The course director is dedicated to individualizing the course as much as feasible in order to provide the best possible experience for each student. Students will divide their time between the inpatient and outpatient services, generally on a week-by-week basis. Patient contact and faculty contact is maximized.
Evaluation	Evaluation of students is based mostly upon clinical observation. No examination is administered.
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Brett Siegfried, MD	Course Categories	CC
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1-2 per block	Night Call	Yes

Course Description

This elective is designed to familiarize the student with the Neonatal Intensive Care Unit (NICU) at CHKD and to participate in the management of neonates under direct supervision of the neonatal-perinatal faculty. Students will be able to apply the basic sciences (physiology, biochemistry, and microbiology) to the care of sick neonates. This elective is designed to allow the student to function as an acting intern in the NICU. When taking night call, the student will have the opportunity to accompany the attending neonatologist and pediatric residents in the delivery room to attend high risk deliveries.

Course Objectives

By the completion of the elective:

1. The student will demonstrate the ability to perform an initial evaluation, including prenatal history and physical examination, on a newborn admitted to the NICU.
2. The student shall demonstrate the ability to develop a differential diagnosis and to institute a management plan.
3. The student shall demonstrate knowledge of the indication for the following procedures on term and premature infants: venipuncture, arterial puncture, umbilical catheterization, lumbar puncture, needle aspiration of pneumothorax, gestational age assessment, and resuscitation of the newborn. The student will have the opportunity to participate in/perform procedures as appropriate clinical opportunities arise.
4. The student shall exhibit the ability to calculate and write fluid and caloric intakes.
5. The student shall become knowledgeable in the functions of the various members of the neonatal team, e.g., nurses and respiratory therapists.
6. The student shall become knowledgeable in the functions of the neonatologist/perinatologist and how to consult with one effectively.

Course Specifics

Report First Day	Children’s Hospital of The Kings Daughters NICU
Student Efforts	Intensive Care 100%, 5-10 hrs/ week of study/reading time, 15-25 hours/week faculty contact time
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Children’s Hospital of The Kings Daughters
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Course Information

Course Director	Irene Restaino, MD	Course Categories	Elective
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	2-4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

A comprehensive experience in pediatric nephrology. Includes daily inpatient rounds, consultations, outpatient clinics daily. Emphasis on clinical diagnosis and management of acute and chronic renal diseases including fluid-electrolyte, acid-base, and renal failure. Prior arrangement required.

Course Objectives

1. To learn diagnostic criteria of pediatric renal disease.
2. To learn diagnostic criteria of acute renal failure.
3. To learn interpretation and clinical diagnosis of fluid and electrolyte disorders.
4. To learn interpretation and clinical diagnosis of acid-base disorders.
5. To learn management of acute and chronic renal failure.
6. To learn management of fluid electrolyte, acid-base disorders.
7. To observe special procedures such as renal biopsy, hemodialysis and peritoneal dialysis.
8. To learn anatomic and physiologic renal correlation with clinical diseases.

Enabling Objectives:

- Recognize differential diagnosis of acute and chronic renal failure and understand and organize management plans.
- Utilize anatomic and physiologic correlation with diagnosis and treatment of disorders particularly glomerulopathies.
- Diagnose fluid and electrolyte and acid-base disorders and formulate a management plan.
- Be knowledgeable in the functions of the pediatric nephrologist and how to consult with one effectively.

Course Specifics

Report First Day	Contact two weeks prior to start of elective
Student Efforts	Patient Contact: 20% Inpatient, 80% Outpatient; 10 hrs/wk rounds; 4 hrs/wk conferences/lectures; 10 hrs/wk study/reading time; 12 hrs/wk faculty contact time
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Jose Chocano, MD	Course Categories	Elective
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will actively participate as a member of the division, on an outpatient basis. Student will either shadow or independently see patients in clinic. Inpatient time is to be expected when there are no clinics. Attendance at general pediatric conferences will be expected.

Course Objectives

1. Perform the initial assessment including history and clinical presentation and development of differential diagnoses for common outpatient pediatric diseases, including asthma, bronchopulmonary dysplasia, apnea, cystic fibrosis, and congenital anomalies of the pulmonary system.
2. Interpret common diagnostic tests including pulmonary function tests, chest x-ray, bronchoscopy findings, and blood studies for immune dysfunction

Course Specifics

Report First Day	Pediatric Pulmonary Office with Pulmonary Attending of the month
Student Efforts	Generally this rotation is mostly outpatient activity with additional time for reading and conferences. Student may not schedule this elective concurrently with other electives in a specific block.
Evaluation	Observation by Pulmonology Faculty including F. Chocano, M.D., C. Epstein, M.D., & L. Vanscoy, M.D.
Other	n/a

Site Compliance Requirements

Hospital 1 | Children’s Hospital of The Kings Daughters

Course Information

Course Director	Lauren Smith, MD	Course Categories	Elective
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	2-4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	General Pediatrics and interest in entering primary care residency
# of Students	1 per block	Night Call	No

Course Description

Student will be involved directly in the evaluation and management of patients with allergic and immunologic disorders, including asthma, allergic rhinitis, atopic dermatitis, urticaria, food allergy, anaphylaxis, and recurrent infections. Knowledge and clinical experience will be obtained by learning to interpret blood levels for immune function, CXRs, PFTs, skin testing and food challenges.

Course Objectives

1. Understand how to evaluate a patient with asthma, determine the severity, and develop an appropriate treatment plan.
2. Learn the appropriate use of the various medications used in the treatment of asthma; understand the proper use of inhalers, spacers, and peak flow meters.
3. Learn how to recognize the child who may have allergies by acquiring proper history taking and physical examination skills.
4. Understand the various medications, including antihistamines and decongestants, used in the treatment of allergies.
5. Understand the principles of immuno-therapy and its appropriate use.
6. Learn how to evaluate and recognize children with a suspected primary immunodeficiency.
7. Understand the appropriate use of referrals to the allergist/immunologists.
8. Diagnose and understand food sensitization, food allergy and clinical outcomes.
9. Evaluate patients with urticaria and hereditary angioedema.

Course Specifics

Report First Day	Pediatric Allergy/Immunology Division Office with the attending of the week
Student Efforts	
Evaluation	Based on clinical observation and overall performance
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Kelli Petronis, MD	Course Categories	AMB, CC
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1-2 per block	Night Call	Yes. Total of 16 shifts/block with mix of day/evening/overnight, as well as weekday/weekend hours.

Course Description

This elective is located in the emergency department of the Children’s Hospital of The King’s Daughters. Students will be expected to see patients independently and then present the history, physical examination, assessment and plan to the ED attending physician in an efficient, organized manner. Participants in the elective will receive hands-on experience in managing a wide variety of medical and surgical problems that present to a busy pediatric emergency department. The ideal student for this rotation is one who is serious about experience in pediatric emergency medicine, can work independently and who is willing to work a full clinical schedule.

Course Objectives

1. Appreciate the specialty of pediatric emergency medicine and participate in the fullest to its practice
2. Develop a thorough systematic approach to pediatric emergency and the critically ill or injured pediatric patient
3. Demonstrate appropriate decision making for complex or critically ill pediatric patients who present to emergency department
4. Function in a multi-disciplinary team
5. Communicate plans and results of procedures and studies with patients and primary care physicians
6. Learn how to perform common procedures such as laceration repairs, incision and drainage of abscesses, pelvic exams, lumbar punctures, orthopedic reductions, and sedation

Course Specifics

Report First Day	Will be contacted by Dr. Petronis approximately 2-4 weeks prior to the start date to develop a schedule
Student Efforts	100% Outpatient; 50 hrs/wk faculty contact time
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Children’s Hospital of The Kings Daughters

Course Information

Course Director	C.W. Gowen, Jr, MD	Course Categories	AMB
Location	Community Pediatrician's Office	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	2-4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective is being offered as an opportunity to obtain experience in a Pediatrician's office. Under the supervision of the pediatrician, the student will perform duties of a practicing pediatrician. The elective is designed to give the student considering a career in pediatrics the opportunity to further assess his/her interest in pediatric practice.

Course Objectives

By the completion of the elective, the student:

1. Will demonstrate the ability to perform a detailed history and physical examination on children and adolescents;
2. Will demonstrate the ability to develop a differential diagnosis and to institute a detailed management plan for the pediatric patient;

Course Specifics

Report First Day	Call at least two weeks prior to the start of the elective
Student Efforts	
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Non-Hospital Experience

Course Information

Course Director	Snehal Patel, MD	Course Categories	AI
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	HPSP students only	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	Yes

Course Description

The Acting Internship (AI) experience is designed to encourage senior medical students to assume patient care responsibilities similar to those of an intern (PGY-1 resident), including night call. This elective is being offered as an advanced course in general Pediatrics with emphasis being placed in inpatient care. The environment and experiences will be provided for the student to further develop the skills necessary for providing health care to the pediatric population. The student will work more independently with increased patient responsibility as part of a medical team.

Course Objectives

By the end of the elective, the student should be able to:

1. Display skill in data collection through the performance of history and physical exam
2. Demonstrate skills in medical problem solving by using clinical and lab data to establish diagnosis and medical management
3. Understand the natural history of many of the diseases of childhood and adolescence, and correlate them with clinical and lab data.
4. Independently approach and logically develop a plan for the diagnosis and management of many childhood disorders.

Course Specifics

Report First Day	Graduate Medical Education Office, Bldg. #3, 3rd floor at 8:00 a.m. on first day of rotation for check-in documents.
Student Efforts	Patient Contact: 100% Inpatient; 15 hrs/wk rounds; 4 hrs/wk conferences/lectures; 15 hrs/wk faculty contact time; 60 hrs/wk inpatient care (minimum and call) Outpatient distribution: 4 hrs/wk conference/lectures, 40 hrs/wk clinic
Evaluation	100% clinical observation by multiple pediatric staff and residents
Other	n/a

Site Compliance Requirements

Hospital 1 | Naval Medical Center Portsmouth

Course Information

Course Director	Svinder Toor , MD	Course Categories	AMB
Location	Children’s Hospital of The Kings Daughters	Main Contact	Patricia Chapman
Period Offered	Continuously	Contact Email	Patricia.Chapman@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7272
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Clinical experience with the wide spectrum of neurological disorders in children, including neuromuscular diseases, epilepsy, headache, brain tumors, neuro-degenerative diseases, and neonatal neurology.

Course Objectives

The student will do the following:

1. Acquire the fundamental skills of extracting a neurological history and performing a neurological examination.
2. Receive exposure to the various aspects of neonatal neurology: neonatal seizures, intra-ventricular hemorrhage, infantile hypotonia, inborn errors of metabolism, CNS malformations.
3. Learn the concepts of epilepsy classification, diagnosis, investigation, and pharmacological management.
4. Learn to evaluate and manage children with developmental disabilities, cerebral palsy, mental retardation, autism, and learning disabilities.
5. Become familiar with common outpatient neurological problems of childhood, such as headache/migraine, muscular dystrophy, myasthenia, neuropathy, tics and other involuntary movements, and paroxysmal disorders.
6. Become comfortable with the immediate and urgent management of status epilepticus, ataxia, coma/altered consciousness, and meningitis/encephalitis.
7. Learn, through case study, to develop differential diagnoses for common pediatric neurological problems.

Course Specifics

Report First Day	Pediatric Neuro-Developmental Center, 850 Southampton Avenue (South Campus) Child and Adolescent Neurology, third floor.
Student Efforts	100% out-patient, (clinic, 8:30-4:30, Mon-Fri)
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Children’s Hospital of The Kings Daughters

Our department includes board-certified pediatric physiatrists and pain management specialists. Our faculty is dedicated to patient care and teaching residents, fellows and medical students in one-on-one clinical situations. Faculty participates in four to six hours a week of formal resident lectures, journal club and clinical case conferences on electrodiagnostics, gait analysis, sports medicine, ethics and practice management. Faculty members are also actively involved in research.

The Department of Physical Medicine and Rehabilitation (PM&R) offers a three-year accredited residency training program (PGY2-PGY4) for a total of eleven residents. It provides comprehensive inpatient and outpatient training experience for specialty care of patients with traumatic brain injury, stroke, spinal-cord injury, trauma, amputee, orthopedic/spine injury, sports injury, pain and neuromuscular disorders.



ANTONIO QUIDGLEY-NEVARÉS, MD

In addition, we offer a one-year accredited pain management fellowship. Our fellows learn comprehensive medical evaluation, diagnosis and management of patients presenting with pain. They gain expertise in interventional pain management procedures including, but not limited to, cervical, lumbar and caudal epidural steroid injections; sacroiliac joint injections; facet blocks; intercostal nerve blocks; peripheral joint injections; and spinal cord stimulator trials. Our faculty works closely with local neurosurgeons for intrathecal pump medication trials and management. During the year, fellows gain experience in pain management from physiatric, anesthesia and neurology perspectives in both adult and pediatric patients, including end of life care.

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/physical_medicine_rehabilitation/

Course Information

Course Director	Mark Bergsten, MD	Course Categories	AMB, Elective
Location	EVMS Andrews Hall, 3rd floor	Main Contact	Valerie Prosisie
Period Offered	Continuously	Contact Email	prosisvm@evms.edu
Duration	2-4 weeks	Contact Phone #	757-446-5915, Option 1
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Flexible inpatient and/or outpatient clinical experiences for adult physical medicine and rehabilitation. Inpatient rehabilitation of stroke, head injury, spinal cord injury, amputee and other orthopedic and neurologic disorders. Outpatient musculoskeletal and pain management including manipulation, acupuncture, epidurals and nerve blocks. Specialty clinics for spinal cord injury, muscular dystrophy, spasticity and cerebral palsy and head injury. Electrodiagnostic evaluation of muscle and nerve disorders. Choice of 2 - 4 weeks duration.

Course Objectives and Goals

Objectives:

1. Exposure to rehabilitation medicine holistic evaluation of patient. Assessment of illnesses and their effects on the basic daily functional activities, mobility, and social roles of individuals and their families.
2. Exposure to prescription of physical therapy, speech therapy, occupational therapy, cognitive therapy, recreational therapy and psychotherapy for inpatients and outpatients with disabling disorders.
3. Exposure to focused musculoskeletal physical examinations and assessments of sports and work related injuries.
4. Exposure to management of acute and chronic pain syndromes including use of medications, exercise, manipulation, modalities, acupuncture and epidurals.
5. Exposure to acute inpatient rehabilitation team management for patients with stroke, head injury, spinal cord injury, cancer, amputations, orthopedic and neurologic injuries.
6. Exposure to vocational rehabilitation and disability assessments.
7. Exposure to electrodiagnostic assessments of nerve entrapments, nerve injuries, radiculopathies, neuropathies, myopathies, and spinal cord disorders.
8. Exposure to prescription of bracing for neck and back injuries, gait disorders and upper extremity disorders.
9. Exposure to prescription of assistive devices for mobility (crutches, walkers, wheelchairs) and activities of daily living (reachers, adaptive utensils, bathroom equipment).
10. Exposure to cardiac, pulmonary and cancer rehabilitation.

Goals:

At the end of this elective, the student will be able to:

1. Able to assess functional status of individuals with injuries and illnesses.
2. Able to state the roles of the physical therapist, occupational therapist, speech therapist, rehabilitation nurse, recreational therapist, psychologist and social worker on the inpatient rehabilitation team.
3. Able to perform basic musculoskeletal and neurologic physical examinations.
4. Able to state the common indications for electrophysiologic studies.
5. Able to prescribe appropriate assistive gait devices and knowledgeable of when to request evaluation for bracing, prostheses and adaptive equipment.
6. Knowledgeable of potential psychological and social consequences of injuries and illnesses.

Course Specifics

Report First Day	Department of PM&R, Andrews Hall
Student Efforts	Patient contact 80%; Didactic instruction 20%; 20 - 30 hrs/wk of faculty contact. Assigned Reading
Evaluation	Clinical Observation

Site Compliance Requirements

Hospital 1 | Sentara, Norfolk General Hospital

Welcome to Physiological Sciences at EVMS. Our mission is to improve human health by educating health care professionals and scientists and by advancing biomedical knowledge through cutting edge basic and translational research.

Our educational focus is to provide students with an integrated understanding of physiology, pharmacology and biochemistry that underpin cell structure and function, the mechanisms, interactions and applications of drugs, as well as metabolism and nutrition that are the foundations of clinical medicine.

We utilize contemporary and innovative technologies in its didactic lectures and small-group and team based clinical problem solving sessions and laboratories and encourage students to apply critical thinking and develop patient-oriented problem-solving skills.

To learn more about the Department, visit http://www.evms.edu/education/centers_institutes_departments/physiological_sciences/



GERALD PEPE, PHD

Course Information

Course Director	Gerald Pepe, PhD	Course Categories	Elective, Scholarly Activity
Location	EVMS Lewis Hall	Main Contact	Gerald Pepe, PhD
Period Offered	Continuously	Contact Email	pepegi@evms.edu
Duration	4 weeks	Contact Phone #	757-446-5616
Restrictions	n/a	Pre-Requisites	None
# of Students	5 per block	Night Call	No

Course Description

This laboratory studies the role of estrogen on fetal placental development and impact of alterations in the maternal/fetal hormonal milieu as well as endocrine disruptors that mimic estrogen action (e.g. bisphenol) on placental and fetal development, maternal well-being, fetal programming, pregnancy outcome and risk for development of disease in adulthood. Studies show that estrogen regulates placental cellular invasion of the maternal uterine spiral arteries in early pregnancy a process that is essential for appropriate utero-placental blood flow and which when defective leads to development of maternal hypertension and preeclampsia as well as compromise fetal growth leading to IUGR. Studies also show that estrogen in the second half of gestation regulates placental catabolism of maternal stress hormones (e.g. cortisol) and programs fetal organ/metabolic systems important for insulin action and thus prevention of insulin resistance (e.g. diabetes) in adulthood. The student will be expected to choose one or more of these or other clinical complications of human pregnancy (e.g. preeclampsia, IUGR; gestational diabetes, prematurity; placenta accreta), summarize the etiology, clinical manifestations etc. and via library search and interaction/discussion with Dr. Pepe to summarize and integrate the relevant basic science research being performed to elucidate cause, improve treatment and enhance fetal-maternal well-being and pregnancy outcome.

Course Objectives

- To make the student aware of the:
 - importance, uses and appropriate applications, i.e. translation of basic science studies to clinical sciences/medicine.
 - the impact of the intrauterine hormonal milieu and programming (epigenetics) on fetal development and origins of adult disease
- To enhance the independent learning skills of the student by:
 - perusal of the scientific literature and the translational research pertinent to the project identified
 - preparation of a paper outlining the goals, methods, and significance of the research project identified and integration of the basic science that underpins normal fetal-placental development

Course Specifics

Report First Day	Student will be contacted several weeks before the start date to meet with Dr. Pepe
Student Efforts	2 hrs/wk meetings/discussion; 30 hrs/week library research and paper preparation
Evaluation	Based on completion of objectives and paper
Other	N/A

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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In addition to our essential role in medical student education, the Department of Psychiatry & Behavioral Sciences houses major educational/training programs that include our psychiatry residency, clinical psychology internship, and doctoral clinical psychology program (in collaboration with Old Dominion University and Norfolk State University). In addition, art therapy faculty members hold joint appointments with our Department. All of these educational programs are approved and accredited by their respective national organizations (ACGME, APA, and AATA).

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/psychiatry_behavioral_sciences/



STEPHEN DEUTSCH, MD PHD

Course Information

Course Director	David Spiegel, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	David Spiegel, MD
Period Offered	Continuously	Contact Email	spiegedr@evms.edu
Duration	4 weeks	Contact Phone #	757-446-5888
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	No

Course Description

The student will be exposed to Consultation/Liaison Psychiatry, a branch of Psychiatry specializing in psychiatric care of the medically ill patient. The student will participate as an integral member of the consultation team, which is comprised of an attending consultation/liaison psychiatrist, residents, and clerkship students. The rotation takes place at Sentara Norfolk General Hospital, a 425 bed general hospital with developed trauma, critical care and specialty units. The students will be expected to evaluate, present and write up consult cases. The student will work closely with the resident and attending physicians and will attend rounds, follow-up on assigned cases, attend conferences and grand rounds. Common diagnoses encountered include delirium, dementia, mood, anxiety and personality disorders.

Course Objectives

1. To obtain knowledge relevant to providing psychiatric consultation to patients and staff in non- psychiatric settings.
2. To obtain a complete history and mental status exam from patients in the consultation/liaison setting and to offer a basic biopsychosocial formulation.
3. To gain knowledge regarding evaluation, differential diagnosis and treatment of psychiatric symptoms and to distinguish between primary and secondary symptoms.
4. To gain knowledge about medical disorders which present with psychiatric symptoms.
5. To gain insight into the evaluation and treatment of psychiatric problems involving physical illness and to understand the patients emotional responses in the context of different social systems (i.e., the hospital ward, nurses, doctors, family, etc.)
6. To develop and enhance liaison skills in interacting with non-psychiatric staff.

Course Specifics

Report First Day	EVMS Hofheimer Hall, Department of Psychiatry & Behavioral Sciences, 7th floor at 9AM
Student Efforts	80% clinical contact, 20% study/reading time
Evaluation	Clinical Observation

Site Compliance Requirements

Course Information

Course Director	Hamid R. Tavakoli, MD	Course Categories	Elective
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description

Consultation-Liaison (C-L) Psychiatry is a branch of psychiatry that entails consultation to medically and surgically ill hospitalized patients, education of students and clinicians of all disciplines, and research. The setting for the practice of C-L Psychiatry is the general hospital. NMCP is a 366 bed general hospital. 4th year medical students will learn key elements in an effective C-L team: Ability to conduct mental status exam and interpret findings in conjunction with laboratory and neuro-imaging; capacity to assess the potential for suicidality, aggression and agitation within a medical-surgical setting; ability to work with and clearly communicate findings and recommendations to non-psychiatric physicians, other health care workers, and families. Usual coverage during duty hours for C-L service pager is 0730-1600. Medical students' duty hours will be 0730-1700. Rounds are daily from 1300 to 1500 except for Fridays when we round from 1430 to 1600. Students will be exposed to "talking papers" as a form of learning and teaching others during rounds. Talking Papers are a quick reference outline on key points of an oral briefing.

Course Objectives

1. To advance data gathering talents, and interviewing skills.
2. To practice composing coherent and thoughtful assessments.
3. To develop the habit of reciting concise oral presentations of cases.
4. To advance differential diagnoses abilities, and ideas for treatment.
5. To learn how to address the needs of both the patient and the medical-surgical team.
6. To gain knowledge about the psychiatric needs of medically ill patients.
7. To apply medical, legal, and ethical principles in the psychiatric management of the physically ill patient.

Course Specifics

Report First Day	Graduate Medical Education Office, Bldg. #3, 3rd floor at 8:00 am on first day of rotation for check in documents
Student Efforts	60% clinical contact, 40% study/reading time
Evaluation	Based on core competencies endorsed by ACGME: <ol style="list-style-type: none"> 1. Patient Care 2. Medical Knowledge 3. Practice-based Learning and Improvement 4. Interpersonal and Communication Skills 5. Professionalism 6. Systems-based Practice
Other	n/a

Site Compliance Requirements

Course Information

Course Director	Justin Petri, MD and Jessica Mees-Campbell, MD	Course Categories	AI
Location	Sentara, Norfolk General Hospital	Main Contact	Justin Petri, MD
Period Offered	Continuously	Contact Email	petrijd@evms.edu
Duration	4 weeks	Contact Phone #	757-446-5888
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per physician per block	Night Call	No

Course Description

This course is designed for seniors wishing for a sub-internship experience in Inpatient Psychiatry prior to beginning residency in Psychiatry. However, students entering the Primary Care field, who want further experience recognizing and assessing mental illness should also apply.

The purpose of this rotation is to provide increasing amounts of responsibility for treating psychiatric inpatients. The student will act as an intern with primary responsibility for patient care including evaluation and treatment.

Course Objectives

1. To be able to complete a full psychiatric evaluation and interview and determine the initial treatment for a psychiatric inpatient.
2. To be able to evaluate on an emergency or walk-in basis the appropriate intervention and/or treatment needed at that time.
3. To be able to recognize clinical indications for psychotropic agents and recommend several choices in terms of their different risks and benefit to profiles for individual patients.
4. To work as an effective member of the psychiatric inpatient team with primary responsibility for assigned patients.
5. To begin to understand the basics of supportive psychotherapy.

Course Specifics

Report First Day	Sentara, Norfolk General Hospital, 8B at 8AM
Student Efforts	Patient Contact: 100% Inpatient; 10 hrs/wk study/reading time; 10 hrs/wk rounds; 5 hrs/wk faculty contact time; 5 hrs/wk conferences/lectures; 10 hrs/wk patient contact
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Roopam Sood-Khandpur, MD	Course Categories	AMB, Elective
Location	Veteran’s Affairs Medical Center, Hampton	Main Contact	Roopam Sood-Khandpur, MD
Period Offered	Continuously	Contact Email	Roopam.sood-khandpur@va.gov
Duration	4 weeks	Contact Phone #	757-722-9961 ext 2486
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The student will be exposed to Addiction Psychiatry, a branch of Psychiatry specializing in the treatment of addictive disorders, i.e., alcoholism and other psychoactive substance dependence. Many of the patients will also have a dual diagnosis. The students will participate as a member of a multidisciplinary team and work closely with the attending psychiatrist and other treatment team members. The rotation takes place in an intensive REHABILITATIVE RESIDENTIAL setting where patients reside for up to 120 days. This is an intensive and highly structured program, which operates on a “bio-psychosocial model” of treatment with a strong emphasis on the 12-Step recovery process. The program is headed by a psychiatrist and includes a program specialist, social worker, addiction therapists and other support personnel. Other treatment tracks include relapse prevention, aftercare, and family. The student will be expected to actively participate in program activities to include: (1) individual and group therapy; (2) community meetings; (3) family counseling; (4) didactic therapy; (5) physical, recreational and occupational therapy; (6) treatment planning; and (7) assessment triage. Students may also be exposed to subspecialty areas to include detoxification and inpatient psychiatric substance abuse education. Utilization of current literature and appropriate references is encouraged. Emphasis is placed on learning the biopsychosocial assessment and formulation, as well as in motivational intervening therapy.

Course Objectives

1. To be able to participate and learn about the bio-psychosocial assessment of a chemically dependent patient along with the intervention strategies used to bring and keep patients in treatment.
2. To be able to participate and learn about the bio-psychosocial assessment of a chemically dependent patient along with the intervention strategies used to bring and keep patients in treatment.
3. To be able to learn about intensive outpatient substance abuse treatment and the support systems necessary for successful recovery.
4. To learn about the psychodynamics of a chemically dependent patient through participation in individual and group therapy sessions.
5. To participate in family sessions and learn the family dynamics for chemical dependency.
6. To participate in staff in-service education and to learn the educational components of recovery.
7. To learn how supporting services, i.e., recreational, occupational and physical therapy, assist the chemically dependent patient in treatment.
8. To participate in the assessment of chemically dependent patients and prepare a case study from this patient population.

Course Specifics

Report First Day	A110 – Mental Health Admin Office. VA Medical Center, 100 Emancipation Drive, Hampton, VA 23667 (Adjacent to Hampton University, next to VA water tower).
Student Efforts	80% clinical contact; 20% study/reading time
Evaluation	
Other	n/a

Site Compliance Requirements

Hospital 1	Veteran’s Affairs Medical Center, Hampton
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Course Information

Course Director	Alaa-Eldin Mahmoud, MD	Course Categories	AI
Location	Veteran's Affairs Medical Center, Hampton	Main Contact	Alaa-Eldin Mahmoud, MD
Period Offered	Continuously	Contact Email	Alaa-Eldin.Mahmoud@va.gov
Duration	4 weeks	Contact Phone #	757-722-9961
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	No

Course Description

This course is designed for seniors wishing for a sub-internship experience in Inpatient Psychiatry prior to beginning residency in Psychiatry. However, students entering the Primary Care field, who want further experience recognizing and assessing mental illness should also apply.

Cases of greater interest in maximizing the educational objectives and that meet the student interests will be selected. Particular areas of interest can include Substance (alcohol or Illicit Substances), Use Disorders, Neurocognitive Disorders (Dementia), Psychotic Disorders, Mood Disorders, Anxiety Disorders, Post Traumatic Stress Disorder or Personality Disorders. The Biopsychosocial model is used with a crisis intervention approach. Brief stabilization is followed by return to the community or non-acute level of care. Under the psychiatrist's supervision, the student would be responsible for assessing the patient and implementing their own treatment plan. The student would follow the response to treatment, updating or modifying the plan as required.

Course Objectives

Goal: To enhance ones understanding of the nature and treatment of psychiatric illness by treating individuals with addictions and mental illness on an adult patient.

Objectives:

1. The student will master the interviewing skills and complete a detailed psychiatric evaluation that includes the biopsychosocial underpinnings and arriving at a comprehensive treatment plan for the psychiatric inpatient.
2. The student will recognize clinical indications for psychotropic agents and recommend several options in terms of their different risks and benefit to profiles for individual patients.
3. The student will work as an effective member of the psychiatric inpatient team with primary responsibility for assigned patients.
4. The student will begin to understand the basics of supportive psychotherapy.

Course Specifics

Report First Day	Psychiatry Office, Bldg. 137 Room B101, Administrative Officer, MR. William Jordan. See Ms. Donna Clayton for orientation. (Call the Psychiatry Office 722-9961 ex 3585 several weeks ahead for required training and computer codes)
Student Efforts	60% patient care, 20% supervision, 20% reading
Evaluation	Clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Veteran's Affairs Medical Center, Hampton

Course Information

Course Director	Kathleen Stack, MD	Course Categories	AMB, Elective
Location	Ft. Eustis	Main Contact	Kathleen Stack, MD
Period Offered	Continuously	Contact Email	kathleen.m.stack.civ@mail.mil
Duration	4 weeks	Contact Phone #	757-314-7558
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Military outpatient mental health care is different than general outpatient care in several ways. The population is generally physically healthy and younger. The goal of treatment is not only symptom improvement, but evaluation of fitness for duty. There are administrative evaluations not conducted in the civilian sector. Focus will on new patient evaluations conducted in the outpatient setting.

Course Objectives

The educational focus of the experience would be to:

1. To become familiar with the lexicon used in the Army.
2. To identify the different treatment issues present in the active duty population.
3. To obtain a full and accurate history including deployments and present the same in oral and written form.
4. Learn to evaluate for appropriate level of care within the military system.
5. Utilize the electronic medical record system of the Army and the Behavioral Health Data Platform for self-reported symptoms using well standardized instruments

Course Specifics

Report First Day	Ft. Eustis building 515, 7:30 am
Student Efforts	60% direct patient contact, 20% of which will be direct presentation and supervision, 20% time for documentation and study.
Evaluation	Clinical evaluation and documentation <ol style="list-style-type: none"> 1. Patient Care 2. Medical knowledge 3. Professionalism 4. Interpersonal and communication skills 5. Initiative
Other	n/a

Site Compliance Requirements

Hospital 1	Requires CAC card and Army training requirements but this is a non-hospital experience
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Course Information

Course Director	Potter Henderson, MD	Course Categories	AMB, Elective, Scholarly Activity
Location	Eastern Shore, Community Services Board 19056 Greenbush Road, Parksley VA 23421	Main Contact	Potter Henderson, MD
Period Offered	Continuously	Contact Email	potterhendersonmd@gmail.com
Duration	2 weeks	Contact Phone #	757-708-2149
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per 2-week experience	Night Call	No

Course Description

This clinically oriented elective will provide the student with exposure to rural mental health care for children, adolescents and adults in the outpatient setting. The student will participate in psychiatric evaluations and develop an understanding of the etiology, presentation, diagnosis, treatment and prognostic variables of psychiatric disorders and the delivery of care in a rural setting. The realms of anxiety, affective/mood disorders, neuro-developmental disorders, psychotic illness will be explored. Through evaluations, follow-up visits, and case presentations, the student will gain an appreciation of formulating cases with attention to biological, psychological/developmental and social/culture perspectives. The elective curriculum would include content on mental health disparities in rural areas and in the Eastern Shore. Students would be encouraged to develop case reports with their preceptors. Students will live on Virginia's Eastern Shore during this rotation in the College of William & Mary – Virginia Institute of Marine Science cottages.

Course Objectives

1. To experience life in a rural community and gain personal confidence and competence in assuming the role of a rural mental healthcare physician.
2. To understand rural healthcare and mental health disparities.
3. To obtain knowledge relevant to providing psychiatric care to children and adolescents, adults and families.
4. To advance data gathering and interviewing skills with children, adolescents, adults and families.
5. To learn how to address the mental health needs of the child, adolescent and the family.
6. To gain knowledge of psychiatric disorders that affect children and adolescents and adults.
7. To develop skills to become a life-long independent learner.

Course Specifics

Report First Day	Eastern Shore, Community Services Board 19056 Greenbush Road, Parksley VA 23421
Student Efforts	80% clinical contact, 20% study/reading time
Evaluation	Clinical observation based on the aforementioned objectives and one of the following assignments. <ol style="list-style-type: none"> 1. Write a paper or case report and include discussion about rural healthcare and mental health disparities. 2. Give a presentation about a mental health topic in the community (examples: local school students on bullying or depression etc., or to local parents on psychiatric medications for children, etc.) this needs to be approved by the rotation supervisors as well.
Other	n/a

Site Compliance Requirements

Hospital 1	Non-hospital Experience
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Course Information

Course Director	Elizabeth Collumb, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Elizabeth Collumb, MD
Period Offered	Continuously	Contact Email	collumek@evms.edu
Duration	4 weeks	Contact Phone #	757-446-5888
Restrictions	n/a	Pre-Requisites	None
# of Students	2	Night Call	No

Course Description

This clinically oriented elective will provide the student with exposure to Emergency Psychiatry in the Emergency Room at Sentara Norfolk General Hospital. The student will participate in evaluations of, but not limited to, patients with psychotic, mood, personality and substance use disorders as well as lethality. The student will evaluate the need for emergent psychopharmacology and ultimate disposition.

Course Objectives

1. To obtain knowledge relevant to providing psychiatric care to a variety of patients in an emergency setting.
2. To become familiar with the difference between emergent psychiatric evaluations and those in other treatment settings.
3. To become familiar with crisis psychopharmacology and disposition.

Course Specifics

Report First Day	EVMS Hofheimer Hall, Suite 710
Student Efforts	90% clinical contact, 10% study/reading time
Evaluation	100% Clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Justin Smith, DO	Course Categories	AI
Location	Sentara, Norfolk General Hospital	Main Contact	Justin Smith, DO
Period Offered	Continuously	Contact Email	smithj@evms.edu
Duration	4 weeks	Contact Phone #	757-446-5888
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This course is designed for seniors wishing for a sub-internship experience in Inpatient Psychiatry prior to beginning residency in Psychiatry. However, students entering the Primary Care field, who want further experience recognizing and assessing mental illness should also apply.

This elective may be beneficial for students interested in Geriatric Medicine, Internal Medicine, Family Medicine, Psychiatry or other fields that would involve the Geriatric population. The student will be exposed to the Senior Treatment Area at Sentara NGH, which is an inpatient Geriatric Psychiatry unit. This unit hosts a population of patients 65 years or older who often present with dementia, delirium psychosis, anxiety and affective states, alongside the physical impairments of various medical conditions, including movement disorders, cardiac and pulmonary conditions and progressive terminal illness. At this location, the student will work actively with the attending physician and will gain experience in diagnostic assessments, behavioral and pharmacologic management of psychiatric illness and the education of patients/caregivers. Treatment modalities include the exposure to Electroconvulsive Therapy which is an effective and safe option for medication-refractory depression, psychosis or catatonia in this population. The student will follow and manage patients daily and play an active role in team presentations. Common topics on this rotation include polypharmacy, ways to minimize confusional states, interdisciplinary management, palliative care, resources in the community and caregiver burden. Efforts will be made to expose the student to topics of interest.

Course Objectives

1. Obtain experience in the inpatient setting with special emphasis on initial assessment, including performing a complete history, mental status exam and diagnoses with a treatment plan.
2. Understand the thorough evaluation process of the older population on the inpatient unit. This would include obtaining a history from several sources, including the patient (who may be a poor historian based on clinical condition), the referring M.D., the nursing staff, social workers and family.
3. Gain insight into psychiatric symptoms while using a biological psychological and social format of evaluation.
4. Practice the utilization of various psychiatric modalities, including Pharmacotherapy, Electroconvulsive Therapy, Non-pharmacologic behavioral interventions, and interdisciplinary care.
5. Demonstrate the ability to utilize educational resources in the field of Geriatric Psychiatry in order to make patient care decisions and to educate patients and caregivers.

Course Specifics

Report First Day	Sentara Norfolk General Hospital, 6th Floor, Senior Treatment Area
Student Efforts	100% Inpatient; 10 hrs/wk study/reading time; 15 hrs/wk rounding; 20 hrs/wk faculty contact.
Evaluation	100% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Sentara, Norfolk General Hospital

The department uses the most advanced techniques of delivering therapeutic irradiation for the treatment of malignant disease and some benign conditions. It also has its own physics and radiobiology support for patient care and tumor biology research.

The department's treatment equipment includes linear accelerators, CT simulators, and treatment planning computers at all locations. A high dose rate remote afterloading unit and facilities for intra-operative radiation at Sentara Norfolk General Hospital complement the therapeutic armamentarium. The Cyberknife Stereotactic Robotic linear accelerator is available at Sentara Norfolk General Hospital.

In addition to standard radiation treatments, members of the department provide the latest treatment strategies, including altered fractionation schemes, interstitial implantation, high dose remote afterloading by outpatient and inpatient techniques, and intraoperative radiation. The department provides a full range of radiation oncology services, including external beam and radioisotope therapy. The department is also involved in institutional multi-disciplinary cancer research projects, as well as national projects.



MARK SINESI, MD

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/radiation_oncology_biophysics/

Course Information

Course Director	Mark Sinesi, DM	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Liz Daniels
Period Offered	July-November, January-May	Contact Email	danielem@evms.edu
Duration	4 weeks	Contact Phone #	757-388-2075
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Students will learn biology, physics, and clinical application of radiation in the management of tumors and certain specific non-malignancies. They will be exposed to the use of external beam radiation therapy using 3-D planning, IMRT, using interstitial therapy such as prostate implants. This is accomplished by new patient conferences and examination of patients. The students will learn to evaluate tumor response, acute and late normal tissue reactions to radiation therapy, and the use of chemotherapy with radiation therapy.

Course Objectives

1. Student will develop an understanding of cancer.
2. Student will interact with patients with malignant tumors.
3. Student will become familiar with the different methods of management of patients with malignancy; e.g., surgery, radiotherapy, chemotherapy.
4. To learn the fundamental basis of radiation therapy for malignant tumors.
5. To learn the indications and contraindications in using radiation therapy.

Course Specifics

Report First Day Student Efforts	Sentara Norfolk General Hospital, Radiation Oncology, Ms. Liz Daniels, danielem@evms.edu , 8:30 a.m.
Evaluation	Based on clinical performance
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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CHAIRMAN: LESTER S. JOHNSON, MD, PhD, FACR

Course Information

Course Director	Zeal Patel, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Marleen Viola
Period Offered	Continuously	Contact Email	violaml@evms.edu
Duration	4 weeks	Contact Phone #	757-388-1141
Restrictions	n/a	Pre-Requisites	None
# of Students	3-4 per block	Night Call	Yes

Course Description

During the elective students will spend their mornings participating in read-out sessions in the various subspecialties of Diagnostic Radiology, spending 1-3 days in each modality. Time devoted to the sub-specialties can be tailored to the special needs and interests of the participants, such as pediatric radiology, interventional and neuroradiology, etc.(based on availability). Required reading is a basic radiology text that will be distributed to the students the first day of their rotation. Afternoons the students will attend lectures given by both attendings and residents in Radiology. Time will be allowed for self-instruction, so that students may review the ACR teaching files, web-based learning tools and radiologic anatomy. Students are expected to attend all teaching conferences held in the department at 7:00 a.m. and Noon. At the end of the rotation the student will prepare and present a short case presentation. A written and oral exam is given toward the end of the rotation.

Course Objectives

1. Contact with subspecialty areas with emphasis on understanding roles and limitations of various imaging modalities.
2. Understanding the basics of chest, bone and abdominal radiology.
3. Development of approach to evaluation of diagnostic problems with use of imaging procedures.

Course Specifics

Report First Day	Sentara Norfolk General Hospital, Radiology Residency Office, Kaufman Entrance
Student Efforts	12 hours a week conferences/lectures; 15 hrs study/reading time; 20 hrs/wk faculty contact time.
Evaluation	60% written exam; 20% case presentation; 10% oral exam; 10% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Harlan Vingan, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Marleen Viola
Period Offered	Continuously	Contact Email	violaml@evms.edu
Duration	4 weeks	Contact Phone #	757-388-1141
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

The Interventional Radiology (IR) elective offers the 4th year student a 4-week experience in caring for patients undergoing image-guided procedures. The student will work closely with attendings, residents, and other providers as an integral member of the IR team. Students will learn to perform basic IR procedures including PICC line placement and core needle biopsies, assist in advanced procedures including TIPS and chemo-/radioembolization, and participate in consults for the IR service.

The student will attend Department of Radiology morning (7AM) and noon didactic conferences. The student will also attend Diagnostic Radiology medical student lectures given by residents, unless he/she has already completed RAD400 satisfactorily; if so, the lecture time will be replaced with reading/study time. Required reading includes selected chapters of *The Requisites: Vascular and Interventional Radiology*, recommended supplemental reading for students who have not completed RAD 400 is *Learning Radiology: Recognizing the Basics*; both texts available through Brickell Library's Online Resources. Students will also have access to IR Lecture Series slides covering high-yield IR topics. Written exam at end of rotation will be based on the required reading. The student will also present a case during noon conference highlighting pathophysiology and interventional techniques during the last week of the elective.

Course Objectives

1. To learn the fundamentals of image-guided procedures across multiple organ systems and imaging modalities.
2. To correlate radiologic findings with clinical presentations and pathophysiology of disease.
3. To participate in pre, peri, and post-procedure care of IR patients.
4. To develop procedural competency by assisting residents and attendings with image-guided procedures including line & drain placements, needle biopsies, and vascular & non-vascular interventions.

Course Specifics

Report First Day	Sentara Norfolk General Hospital, Radiology Residency Office, Kaufman Entrance
Student Efforts	Patient Contact 80%, 40 hrs/wk clinical time; 10-12 hrs/wk conference/lecture
Evaluation	1/3 clinical observation, 1/3 written exam; 1/3 student case presentation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Sarah Shaves, MD and Wendy Brown, MD MPH	Course Categories	Elective
Location	Sentara, Norfolk General Hospital Children’s Hospital of the Kings Daughters Bon Secours, DePaul Medical Center Chesapeake Regional Medical Center	Main Contact	Marleen Viola
Period Offered	Continuously	Contact Email	violaml@evms.edu
Duration	Longitudinal	Contact Phone #	757-388-1141
Restrictions	M4 students who have participated in the integrated ultrasound curriculum and who will be applying for Radiology Match must also take the diagnostic radiology elective	Pre-Requisites	Prospective students must complete an application to be selected for the Honors Ultrasound Program, be planning a career in radiology, and require acceptance by the elective co-directors. Application available from Radiology Residency Administrator
# of Students	2 per year	Night Call	No

Course Description

One to two EVMS M4 students planning a career in radiology with special interest in ultrasound will gain advanced understanding of the radiologic subspecialty while working with Radiology attendings and residents through a variety of activities including hands on scanning, developing procedural skills, didactics and self-directed learning.

We expect each student to provide 160 hours of engagement during the course of the year similar to a full four week block rotation (4 weeks x 40 hours = 160 hours) to be completed by March 15th of academic year. Given interviews and away rotations the student may not be able to participate in all course educational offerings. Maximum numbers of hours permitted for each activity will ensure a balanced experience.

Course Objectives

1. Learn the fundamental physics and knowledge of ultrasound
2. Develop an understanding of the strengths and weakness of ultrasound in cross sectional imaging including ACR appropriateness criteria for use of ultrasound
3. Develop language for describing findings on ultrasound
4. Begin to develop the ability to recognize artifacts and abnormalities, strengthen the ability to identify anatomy
5. Improve ultrasound hands on technique
6. Acquire images and dictate ultrasound reports using appropriate macros and standard verbiage

Course Specifics

Report First Day	Sentara Norfolk General Hospital, Radiology Residency Office, Kaufman Entrance
Student Efforts	Scanning 25%, image interpretation 15%, didactics 25%, self-directed learning 35%
Evaluation	Possible grades are Honors, Pass, Fail. Grade based directly upon the student’s level of engagement, performance of ultrasounds in clinical spaces and simulation lab, clinical observation, completing independent materials with self-assessment, quality of presentations, preparation of didactics, attendance at didactics, oral exam, and completing all above within the required timeline of the longitudinal elective.
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Children’s Hospital of the Kings Daughters
Hospital 3	Bon Secours, DePaul Medical Center
Hospital 4	Chesapeake Regional Medical Center

EVMS Health Services surgeons are nationally and internationally recognized for their expertise and skill and acclaimed for their clinical research, education of students and residents, and patient care. Many hold national and international positions in their specialty societies and are considered leaders in their fields. Our department specializes in surgical oncology (including breast surgery), acute care surgery (trauma, critical care, and emergency general surgery), minimally invasive surgery, plastic and reconstructive surgery, hand surgery and ophthalmology. Our surgeons are the only Level 1 Trauma surgeons in the Hampton Roads region of Virginia. We also offer several programs for medical students interested in general surgery subspecialties.

As full-time faculty at Eastern Virginia Medical School, our practice has access to research and specialists who form the medical school's faculty as well as the comprehensive resources of an academic medical center. Ground-breaking research, possible only in an academic setting, combined with state-of-the-art patient centered quality care, provides a level of service and knowledge unmatched by other medical service providers.

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/surgery/

A VIDEO MESSAGE FROM THE CHAIRMAN OF SURGERY: L. D. BRITT, MD, MPH

Course Information

Course Director	L. D. Britt, MD	Course Categories	AI
Location	Sentara, Norfolk General Hospital	Main Contact	Cecilia Mulrain
Period Offered	Continuously	Contact Email	mulraics@evms.edu
Duration	4 weeks	Contact Phone #	757-446-6107
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

The Acting Internship (AI) experience is designed to encourage senior medical students to assume patient care responsibilities similar to those of an intern (PGY-1 resident), including night call.

Exposure to broad range of surgical conditions on the wards, in the operating room and clinics and full participation on the surgery professorial service. The student will participate in weekly teaching rounds with Dr. LD Britt and other faculty small group teaching sessions.

Course Objectives

By the end of this elective, the student should be able to:

1. Understand the physiologic consequences of surgical procedures.
2. Participate in the evaluation and postoperative management of surgical patients on daily morning and evening rounds.
3. Understand the preoperative evaluation and planning that patients require prior to major general and oncologic surgery.
4. Perform at the level of an intern in regards to postoperative decision making and knowledge of disease pathophysiology and surgical management

Course Specifics

Report First Day	Sentara Norfolk General Hospital in the 4K Classroom at 6am - Contact Cecilia Mulrain 2weeks before to set up a meeting with Dr. Britt
Student Efforts	Patient Contact: 80% Inpatient, 20% Outpatient; 20 hrs/wk rounds; 7 hrs/wk conferences/lectures; 8 hrs/wk faculty contact time; 6 hrs/wk operating room
Evaluation	Clinical Observation & Literature Review
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Jay Collins, MD	Course Categories	AI, CC
Location	Sentara, Norfolk General Hospital	Main Contact	Cecilia Mulrain
Period Offered	Continuously	Contact Email	mulraics@evms.edu
Duration	4 weeks	Contact Phone #	757-446-6107
Restrictions	Blocks 1 – 5, only for students pursuing General Surgery	Pre-Requisites	None
# of Students	3 per block	Night Call	Yes

Course Description

This rotation is designed to introduce the student to the principles of initial assessment, resuscitation and decision making needed to deal with the multiply injured patient. Operative management, care in the intensive care unit and integration of care by multiple services are emphasized on daily rounds. The role of the Trauma Surgeon/team as coordinating physician is demonstrated especially regarding complex multi-system injury patients. The student will be assigned to one of the Trauma Teams.

Responsibilities on call include care of all new incoming patients, ongoing care in the Burn Trauma Unit and on the floor service. The student is expected to function as an integral team member under the direction of the Chief Resident and attending staff. Initial reading material will be distributed at the start of the rotation.

Course Objectives

By the end of this elective, the student should be able to:

1. Determine criteria for stabilization of the trauma patient.
2. Provide a systematic approach to the single and multiple system trauma victim.
3. Know the criteria for determining priority of problems to be managed in the acute trauma patient.
4. Develop an overview of the total care of the trauma victim; pre-hospital, emergency room, critical care, operating phase and rehabilitation.
5. Understand emergency care approach to problems of airway, breathing and circulation.
6. Recognize, understand and treat hypovolemic shock.

Course Specifics

Report First Day	Sentara Norfolk General, Burn Trauma Unit, 6th floor of the River Pavillion, Pod 4, 6:50AM
Student Efforts	Patient Contact: 97% Inpatient, 3% Outpatient; 14 hrs/wk rounds; 3 hrs/wk conferences/lectures; 14 hrs/wk faculty contact; study/reading time variable
Evaluation	Clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Eric Feliberti, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Cecilia Mulrain
Period Offered	September - May	Contact Email	mulraics@evms.edu
Duration	4 weeks	Contact Phone #	757-446-6107
Restrictions	n/a	Pre-Requisites	None
# of Students	3 per block	Night Call	No

Course Description

This is a senior elective (year M4) for any student interested in surgical oncology and breast surgery. The focus will be on the evaluation and staging of patients with common malignancies especially gastrointestinal cancer, breast cancer, melanoma, as well as unusual and complex problems. The importance of a well thought out treatment plan as well as the multi-modality approach to care, will be emphasized. Importance will be placed on the comprehensive management of the entire patient, not only from a medical standpoint, but also in terms of psychological, social, and rehabilitation aspects. The student will also become familiar with the complexity of current national protocol studies. The student will be assigned to patients for twice daily rounds, procedures and ward work. Students will be required to attend the tumor conferences. During the rotation the student will be expected to perform an indepth analysis each week on a tumor specific evaluation or treatment that the student encountered and give a brief 10-minute summary to the course director. The textbook for the course is "THE M.D. Anderson Surgical Oncology Handbook, 4th Edition, Lippincott, 2006". Online reference for the course is "The National Comprehensive Cancer Network" ONCCN.

Course Objectives

1. To learn how to evaluate and stage the patient with cancer.
2. To learn how to diagnose and treat the patient with gastrointestinal cancer, breast cancer, melanoma, and other common cancers, and unusual malignancies.
3. To observe and/or participate directly with patient care as well as surgery.
4. To become familiar with the goals, objectives, and requirements of national protocol studies.
5. To develop an appreciation for the complex nature of multi-modality treatment of patients with cancer.

Course Specifics

Report First Day	Call to arrange
Student Efforts	Patient contact 80%, inpatient and outpatient; 20% of time will be devoted to "mini project"; 10 hours per week of rounds; 3 hours per week conference and lectures; 10 hours per week faculty contact; study/reading time are variable.
Evaluation	75% Clinical observation; 25% analysis project
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Jay Collins, MD	Course Categories	AI, CC
Location	Sentara, Norfolk General Hospital	Main Contact	Cecilia Mulrain
Period Offered	Continuously	Contact Email	mulraics@evms.edu
Duration	4 weeks	Contact Phone #	757-446-6107
Restrictions	Blocks 1 – 6, only for students pursuing General Surgery	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

One M4 year student per rotation will have the opportunity to work on the Emergency General Service (EGS) at Sentara NGH for four weeks. They will be expected to function at the intern level helping the R2 and chief manage the service. They will be expected to see inpatient and ED consults and to round on patients on a daily basis. Call will be every 4th to 5th night with early release post call. Students will be off at least one weekend day per week. Students will participate in patient management, placement of central lines, arterial lines, PA catheters, chest tubes, tracheostomies, PEGs and OR cases. Students will participate in all Department of Surgery conferences and didactic sessions during their rotations. Each acting intern will be responsible for organizing one EGS journal club. This elective is ideal for the student interested in surgery or the subspecialties.

Course Objectives

By the end of the elective, the student should be able to:

1. Perform the initial history and evaluation of inpatient consults and emergency room consults for the acute care surgery service
2. Improve surgical technical skills, participating in all procedures and surgeries on the service
3. Participate in the ICU management of critically ill surgical patients
4. Understand and appreciate basic emergency surgical diseases and their management
5. Perform at the level of an intern in regards to postoperative decision making and initial evaluation and management of acute care surgery patients

Course Specifics

Report First Day	Sentara Norfolk General, Burn Trauma Unit, 6th floor of the River Pavillion, Pod 4, 6:50AM
Student Efforts	Patient Contact: 100% Inpatient; about 70 hrs/wk study reading time; 10 hrs/wk rounds; 10-12 hrs/wk faculty contact time; 4-5 hrs/wk conferences/lectures
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Wilkins Hubbard, MD	Course Categories	Elective
Location	Sentara, Leigh Hospital	Main Contact	Tricia Bander
Period Offered	Blocks 2-4 and 7-9	Contact Email	papearc1@sentara.com
Duration	4 weeks	Contact Phone #	757-261-5000
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

This elective offers the student the opportunity to observe and participate in the active care of general surgical and general thoracic surgical patients within the context of a large private practice setting. The elective offers the senior medical student the opportunity to work with a variety of surgeons in and out of the operating room setting.

Operative management and post-operative care. Introduction to new surgical techniques and application of endoscopic surgery with the opportunity to participate in clinical research is provided.

Course Objectives

Course Specifics

Report First Day	Sentara Surgery Specialists, 880 Kempsville Road, Suite 1000, Norfolk VA 9:00AM
Student Efforts	Patient Contact: 80% Inpatient, 20% Office; 4 hrs/wk rounds; 2 hrs/wk conferences/lectures; 30 hrs/wk faculty contact time
Evaluation	Clinical Observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Leigh Hospital
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Course Information

Course Director	Wilkins Hubbard, MD	Course Categories	Elective
Location	Sentara, Leigh Hospital	Main Contact	Tricia Bander
Period Offered	Blocks 2-4 and 7-9	Contact Email	papearc1@sentara.com
Duration	4 weeks	Contact Phone #	757-261-5000
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	Yes

Course Description

This elective offers the fourth year student interested in pursuing a career in General/Thoracic Surgery to be involved in the preoperative, operative and postoperative evaluation and management of primarily pulmonary and esophageal surgical conditions. The opportunity to be involved in clinical research is also available. The elective is in the setting of a large group private practice working at multiple hospitals.

Operative management and post-operative care. Introduction to new surgical techniques and application of endoscopic surgery with the opportunity to participate in clinical research is provided.

Course Objectives

Course Specifics

Report First Day	Sentara Surgery Specialists, 880 Kempsville Road, Suite 1000, Norfolk VA 9:00AM
Student Efforts	Patient Contact: 80% Inpatient, 20% Office; 4 hrs/wk rounds; 2 hrs/wk conferences/lectures; 30 hrs/wk faculty contact time
Evaluation	Clinical Observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Leigh Hospital
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Course Information

Course Director	Robert Kelly, MD	Course Categories	CC
Location	Children's Hospital of The Kings Daughters	Main Contact	Robert Kelly, MD
Period Offered	Continuously	Contact Email	robert.kelly@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7703
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	No

Course Description

Pediatric surgery offers the opportunity to become familiar with surgical diseases and congenital malformations affecting neonates, infants and children. The rotation also provides an opportunity to learn the surgical indications as well as the pre- and postoperative management of these highly complicated patients.

Course Objectives

Intermediate Objectives

1. To learn the approach and the assessment of the critically ill neonate and child.
2. To learn the difference and patho-physiology of pediatric surgical diseases.
3. To learn the basics of fluid and electrolyte metabolism in newborn babies.
4. To learn the difference in antibiotic and other medication requirements in babies and children.
5. To learn the assessment of pediatric patients in the outpatient department requiring possible admission for surgery.
6. To learn the preoperative preparation of pediatric patients.
7. To become familiar with the common pediatric surgical operations.
8. To become familiar with the postoperative care of neonates and children.

Enabling Objectives

By the end of the elective, the student should be able to:

1. Recognize those patients who have pediatric surgical diseases, such as appendicitis, diaphragmatic hernias, strangulated hernias, and intestinal atresias.
2. The student should be able to assess the critical nature of the illness and decide whether the patient requires elective surgery or immediate admission with emergency surgery.
3. The student should be able to assess the necessity of preoperative fluid and electrolyte therapy as well as antibiotic therapy.
4. The student should have basic understanding of surgical technique and surgical assistance.
5. The student should be able to provide postoperative care for the patient.
6. The student should be able to anticipate and prevent the common postoperative complications.
7. The student should be familiar with common postoperative practices.

Course Specifics

Report First Day	Contact Office (668-9761) at least one week prior to start of rotation.
Student Efforts	Patient Contact: 83% Inpatient, 17% Outpatient, 5 hrs/wk rounds; 4 hrs/wk conferences/lectures; 10 hrs/wk study/reading time; 2 hrs/wk faculty contact time; 1 hr/wk neonatology
Evaluation	50% oral exam; 50% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Children's Hospital of The Kings Daughters
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DEPARTMENT OF SURGERY:

DIVISION OF ORTHOPEDIC SURGERY

Course Information

Course Director	A. Jamali, MD	Course Categories	Elective
Location	Chesapeake Regional Medical Center	Main Contact	A. Jamali, MD
Period Offered	Continuously	Contact Email	
Duration	2-4 weeks	Contact Phone #	757-547-0855
Restrictions	n/a	Pre-Requisites	None
# of Students	1-2 per block	Night Call	No

Course Description

Patient contact and clinical aspect of basic science and orthopedic surgery

Course Objectives

1. To learn the evaluation of the musculoskeletal system.
2. To learn basic principles in patient care.
3. To learn basic operating room techniques and anatomy by clinical instruction.

Course Specifics

Report First Day	Call at least two weeks prior to arrange
Student Efforts	Patient Contact: 20% Inpatient, 80% Outpatient; 5 hrs/wk rounds; 4 hrs/wk conferences/lectures; 10 hrs/wk study/reading time; 40 hrs/wk faculty contact time
Evaluation	30% oral exam; 20% written; 40% clinical observation; 10% other
Other	n/a

Site Compliance Requirements

Hospital 1 | Chesapeake Regional Medical Center

Course Information

Course Director	Luke Balsamo, MD	Course Categories	AMB, Elective
Location	Naval Medical Center Portsmouth, Bone & Joint Sports Medicine Institute (outpatient)	Main Contact	Rachel Darling
Period Offered	December-May	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	Priority given to HPSP students July-October	Pre-Requisites	To request this elective go to http://www.med.navy.mil/sites/nmcp/Dept/SitePages/GMED/default.aspx Click on "Request for Clerkship/Interview" in the bottom left corner
# of Students	1 per block	Night Call	No

Course Description

Text to serve as basic reference while on rotation, (1) Essentials of Orthopaedic Surgery, by Sam Weisel, published by Saunders. Rotator will spend approximately 0700 to 0730 in morning conference, and 0730 to 1600 in clinical setting, which will primarily be the acute care clinic, but can be other services if desired and available (i.e., total joint, sports medicine, hand, trauma, etc.) A comprehensive curriculum of lectures intended for non-orthopedists will be given during the course of the month. (2) Physical Examination of the Spine and Extremities by Stanley Hoppenfeld (Appleton-Century-Crofts).

Course Objectives

1. Demonstrate the capability to:
 - » Take a thorough history of musculoskeletal problems
 - » Perform adequate physical examination of the spine and extremities
 - » Splint and cast basic orthopedic injuries
 - » Read basic X-rays of the musculoskeletal system
2. To become familiar with clinical tests used in orthopedics.

Course Specifics

Report First Day	Graduate Medical Education Office, Bldg. #3, 3rd floor at 8:00 a.m. on first day of rotation for check-in documents, before proceeding to Orthopedic GME Coordinator, Kelley Jacobson, Building 3, 5th floor.
Student Efforts	Patient Contact: 100% Outpatient (if student desires rotation on inpatient service arrangements could be made); 6 hrs/wk conference/lectures; 4 hrs/wk study/reading time; 40 hrs/wk clinic time with one-on-one contact with orthopedic resident.
Evaluation	100% clinical observation
Other	N/A

Site Compliance Requirements

Hospital 1	Naval Medical Center Portsmouth - outpatient
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Course Information

Course Director	Boyd W. Haynes, III, MD	Course Categories	Elective
Location	Orthopaedic & Spine Center, 250 Nat Turner Boulevard, Newport News, VA 23606 Riverside Regional Medical Center	Main Contact	Boyd W. Haynes, III, MD
Period Offered	Continuously	Contact Email	boneset1@verizon.net
Duration	4-6 weeks	Contact Phone #	757-596-1900
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Student will follow private practice orthopedist during office hours, surgery and rounds. Student will have ample time for their own studying and reading. Student should come away with a basic understanding of orthopedic surgery and clinical evaluation of the orthopedic patient.

Course Objectives

1. Demonstrate the capability to:
 - » Take a thorough history of musculoskeletal problems
 - » Perform adequate physical examination of the spine and extremities
 - » Splint and cast basic orthopedic injuries
 - » Read basic X-rays of the musculoskeletal system
2. To become familiar with clinical tests used in orthopedics.

Course Specifics

Report First Day	Orthopaedic & Spine Center, 250 Nat Turner Boulevard, Newport News, VA 23606 8:00AM
Student Efforts	Patient Contact: 50%, Outpatient, 50%; 15-20 hrs/wk study/reading time, 20 hrs/wk faculty contact time, 1-2 hrs/wk rounds, 2 hrs/wk conference/lectures, 10 hrs/wk surgery
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Riverside Regional Medical Center

Course Information

Course Director	Samuel P. Robinson, MD	Course Categories	Elective
Location	Sentara, Leigh Hospital	Main Contact	Samuel P. Robinson, MD
Period Offered	July, September, November, January, March, May	Contact Email	kislam@jordan-younginstitute.com
Duration	4 weeks	Contact Phone #	757-490-4802
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

Student will follow private practice orthopedist during office hours, surgery and rounds. Student will have ample time for their own studying and reading. Student should come away with a basic understanding of orthopedic surgery and clinical evaluation of the orthopedic patient.

Course Objectives

1. Demonstrate the capability to:
 - » Take a thorough history of musculoskeletal problems
 - » Perform adequate physical examination of the spine and extremities
 - » Splint and cast basic orthopedic injuries
 - » Read basic X-rays of the musculoskeletal system
2. To become familiar with clinical tests used in orthopedics.

Course Specifics

Report First Day	Jordan-Young Institute, 5716 Cleveland Street, Suite 200, Virginia Beach, VA 23462
Student Efforts	Patient Contact: 50%, Outpatient 50%; 15-20 hrs/wk study/reading time 20-30 hrs/wk faculty contact time, 1-2 hrs/wk rounds, 2 hrs/wk didactic lectures, 10-20 hrs/wk surgery.
Evaluation	100% Clinical Observation
Other	Students interested in pursuing a career in Orthopedics should contact the Elective Supervisor prior to the rotation to maximize the benefit of the experience as it pertains to the Orthopedic Residency match.

Site Compliance Requirements

Hospital 1	Sentara, Leigh Hospital
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Course Information

Course Director	Felix Kirven, MD	Course Categories	Elective
Location	Kirven Orthopedic Group, 5701 Cleveland Street, Suite 600, Virginia Beach, VA 23462 Chesapeake Regional Medical Center	Main Contact	Danielle Halt
Period Offered	Continuously	Contact Email	danielle.halt@yahoo.com
Duration	2-4 weeks	Contact Phone #	757-963-6507
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	No

Course Description

Students will experience all facets of Orthopedic Surgery and Spine Surgery, Office Practice and life. In addition, Physical Medicine & Rehabilitation will be included.

Course Objectives

1. Demonstrate the capability to:
 - » Take a thorough history of musculoskeletal problems
 - » Perform adequate physical examination of the spine and extremities
 - » Splint and cast basic orthopedic injuries
 - » Read basic X-rays of the musculoskeletal system
2. To become familiar with clinical tests used in orthopedics.

Course Specifics

Report First Day	Kirven Orthopedic Group, 5701 Cleveland Street, Suite 600, Virginia Beach, VA 23462
Student Efforts	Patient Contact: 40% inpatient, 60% Outpatient; 15 hrs/wk study/reading time; 40 hrs/wk faculty contact time, 2 hrs/wk rounds, 5 hrs/wk rounds. 12 hrs/wk Surgery
Evaluation	40% oral exam, 30% written; 30% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Chesapeake Regional Medical Center

DEPARTMENT OF SURGERY:

DIVISION OF PLASTIC SURGERY

Course Information

Course Director	Lambros Viennas, MD	Course Categories	Elective
Location	Sentara, Norfolk General Hospital	Main Contact	Cecilia Mulrain
Period Offered	Continuously	Contact Email	mulraics@evms.edu
Duration	4 weeks	Contact Phone #	757-446-6107
Restrictions	n/a	Pre-Requisites	Special interest in plastic surgery or applying for residency in plastic surgery
# of Students	1 per block	Night Call	No

Course Description

Students will rotate through the Plastic Surgery Service, engaging in contact with patients and assisting in surgery; attending lectures, conferences and suture workshops including microsuturing. Exposure to all aspects of reconstructive and aesthetic surgery; including breast, facial, pediatric and general plastic surgery procedures. Participation in a research project or preparation of an in-depth essay or paper on a particular subject in plastic surgery.

Course Objectives

To understand the scope and practice of plastic surgery; the diagnosis of specific problems, the medical and surgical management of plastic surgery patients (including pre and post-operative care), and an understanding of long-term outcomes of both functional and aesthetic procedures. This will be achieved through:

1. Exposure to and participation in the academic practices of full-time department members, as well as exposure to private plastic surgery practices.
2. Didactic lectures and conferences.
3. Directed reading of plastic surgery texts, journals and reviews of specific videotapes.

Course Specifics

Report First Day	EVMS Plastic and Cosmetic Surgery Center, 5589 Greenwich Road, Suite 100, Virginia Beach VA 23462 Call 757-557-0300 to arrange time
Student Efforts	
Evaluation	Clinical assessment, essay or research project.
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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The Department of Urology at Eastern Virginia Medical School is committed to supporting the mission of the medical school to provide the highest caliber of specialized urologic care in the region, to provide excellence in education, and to provide advance knowledge through research.

The Department includes 26 full-time faculty members and 9 fellowship trained faculty members. We have a close academic partnership with the Department of Urology at Portsmouth Naval Hospital.

Educational Programs

Medical School

The Department actively participates in the undergraduate educational programs for medical students. A fourth-year clerkship (sub-internship) is offered as an elective.

Residency Education

The Department sponsors an ACGME-approved Urology residency training program and is involved in teaching Urology to primary care and general surgery residents at Eastern Virginia Medical School.

Postgraduate Education

Community physicians are invited to participate in continuing medical education in urology via weekly grand rounds, guest lectureships, and a monthly journal club. The Department frequently sponsors continuing medical education seminars for area physicians of all specialties.

During the academic year, the Department also hosts many visiting physicians from both the U.S. and many other countries.

Clinical Services

Patient Care

Urologic services are provided for patients at the Sentara Hospitals Southside, Children's Hospital of The King's Daughters, Lake Taylor Hospital and Chesapeake General Hospital. The Department operates through the offices of Urology of Virginia and Children's Surgical Specialty Group-Children's Urology.

Urology Grand Rounds

Patients with complex disease and diagnostic or therapeutic challenges are discussed at our weekly clinical conferences that are attended by residents, students, faculty members and community physicians. A monthly multi-disciplinary urology tumor board addresses challenging oncology cases.

Research

Members of the Department of Urology actively collaborate with investigators at Eastern Virginia Medical School and Old Dominion University. Clinical trials are conducted in concert with the EVMS Department of Microbiology and Molecular Cell Biology. Urology of Virginia also maintains an active research department sponsoring trials with regional cancer research groups and various private foundations and pharmaceutical companies.

To learn more about the Department visit: http://www.evms.edu/education/centers_institutes_departments/urology/



KURT A. MCCAMMON, MD

Course Information

Course Director	Kurt A. McCammon, MD	Course Categories	Elective
Location	Urology of Virginia, 225 Clearfield Ave, Virginia Beach VA 23462 Sentara, Norfolk General Hospital Children's Hospital of The Kings Daughters	Main Contact	Lynn Vass
Period Offered	Continuously	Contact Email	vasslm@evms.edu
Duration	4 weeks	Contact Phone #	757-452-3459
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	No

Course Description

This course includes experience with the broad, overall concepts of urologic disease and the practice of urology in the hospital and office setting. There will be an emphasis on the basic diagnostic procedures and treatment of patients with disease of the genitourinary organ system, male and female. Students will participate in assigned readings, diagnostic procedures, assist at surgery, and present patients at conferences.

Students will become familiar with the American Urological Association (AUA) website - National Medical Student Curriculum, specifically the Core Content (all 9 areas) and Uroradiology cases (all 6 cases).

Course Objectives

By the end of the elective, the student should be able to:

1. Participate in the care and evaluation of patients with urologic disease.
2. Learn the basic of urologic diagnosis, the signs and symptoms of urologic disease, the perils in reading GU x-rays, and the surgical treatment available for difficult urologic problems.
3. Know the pathophysiology of diseases involving the adrenal gland kidney, ureter, bladder, prostate, urethra testis, scrotum and the surgical treatment for curing or reconstructing these diseased organs.

Course Specifics

Report First Day	6:45 AM: A-Wing Conference Room, Sentara Norfolk General Hospital (Confirm with department)
Student Efforts	Patient Contact: 90% Inpatient, 10% Outpatient
Evaluation	100% Clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Children's Hospital of The Kings Daughters

Course Information

Course Director	Paul McAdams, MD, CDR	Course Categories	Elective
Location	Naval Medical Center Portsmouth	Main Contact	Rachel Darling
Period Offered	Continuously	Contact Email	usn.hampton-roads.navhospporsva.list.NMCP-MedStudentCoordinator@mail.mil
Duration	4 weeks	Contact Phone #	757-953-0672 757-953-3677
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	No

Course Description

Students will be involved as externs in clinic, inpatient care, surgery, urographic reading sessions, conferences and academic programs. Course can be tailored to meet individual's needs, interests, or special requirements.

Course Objectives

Intermediate Objectives

1. To learn the essentials of the urologic examination in males and females.
2. To learn the basics of a routine evaluation with emphasis on urography, urodynamics and basic endoscopic evaluation with the indications for and limitations of each.
3. To learn the management of commonly encountered urologic problems, UTI, stones, hematuria, retention, scrotal masses, infertility.
4. To learn when urologic consultation is appropriate and when it can be helpful.
5. Review essentials of urinalysis from urologic perspective.

Enabling Objectives

By the end of the elective the student should be able to:

1. Perform complete urologic history and physical examination.
2. Know the indications for urographic studies, cystoscopy, urodynamic evaluations.
3. Understand the management of acute urologic problems; UTI, Pyelonephritis, calculi, scrotal emergencies.
4. Develop a plan to assess patients with male infertility.
5. Manage catheterization of bladder. Know indications for coude', filiforms, followers, and sounds.
6. Discuss basic mechanisms of stone disease.
7. Discuss major causes of hematuria.

Course Specifics

Report First Day	Graduate Medical Education Office Bldg., #3, 3rd floor at 8:00 a.m. on first day of rotation for check-in documents, before proceeding to Urology Dept., Bldg. #2, 2nd floor
Student Efforts	15 hrs/wk inpatient contact; 15 hrs/wk outpatient contact; 5 hrs/wk rounds; 5 hrs/wk conferences/lectures; 10 hrs/wk faculty contact time
Evaluation	90% clinical observation; 10% presentation
Other	n/a

Site Compliance Requirements

Hospital 1

Naval Medical Center Portsmouth

Course Information

Course Director	Kurt A. McCammon, MD	Course Categories	AI
Location	Urology of Virginia, 225 Clearfield Ave, Virginia Beach VA 23462 Sentara, Norfolk General Hospital Children's Hospital of The Kings Daughters	Main Contact	Lynn Vass
Period Offered	Continuously	Contact Email	vasslm@evms.edu
Duration	4 weeks	Contact Phone #	757-452-3459
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	Yes

Course Description

The Acting Internship (AI) experience is designed to encourage senior medical students to assume patient care responsibilities similar to those of an intern (PGY-1 resident), including night call. This rotation will be offered to M4 students who are interested in a career in Urology. They will be expected to function at the intern level, helping the residents and chief manage the service. They will be expected to see inpatient and ED consults and to round on patients on a daily basis. Call will be every fourth night. Students will develop a broad knowledge base of the concepts of urologic disease and the practice of Urology in the hospital and outpatient setting. Emphasis will be placed on diagnostic procedures and treatment of patients with disease of the genitourinary organ system, male and female. Students will be responsible for assigned readings, carrying out diagnostic procedures, assist at surgery, and attending all departmental conferences where they will be expected to actively participate.

Students will become familiar with the American Urological Association (AUA) website - National Medical Student Curriculum, specifically the Core Content (all 9 areas) and Uroradiology cases (all 6 cases).

Course Objectives

By the end of the elective, the student should be able to:

1. Participate in the care and evaluation of patients with urological disease.
2. Know the basics of urologic diagnosis, the signs and symptoms of urologic disease, the perils of reading GU imaging studies, and the surgical treatments available for difficult urologic problems.
3. Learn the pathophysiology of diseases involving the adrenal gland, kidney, ureter, bladder, prostate, urethra, scrotum and the surgical treatment for curing or reconstructing these diseased organs.

Course Specifics

Report First Day	6:45 AM: A-Wing Conference Room, Sentara Norfolk General Hospital (Confirm with department)
Student Efforts	90% Inpatient, 10% Outpatient
Evaluation	100% Clinical Observation
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
Hospital 2	Children's Hospital of The Kings Daughters

INTERDISCIPLINARY ELECTIVES

Course Information

Course Director	A. Brooke Hooper, MD	Course Categories	Required for EVMS students
Location	EVMS	Main Contact	Ylonda Boatright
Period Offered	Block 10 only	Contact Email	boatright@evms.edu
Duration	4 weeks	Contact Phone #	757-446-7439
Restrictions	n/a	Pre-Requisites	None
# of Students	150	Night Call	No

Course Description

STEP is a required rotation that addresses the core competencies (tasks) graduating students should possess prior to starting internship. STEP is divided into 2 components. The required component addresses content and skills interns are entrusted to perform unsupervised regardless of specialty.

- Gather a history and perform a PE
- Prioritize a differential diagnosis following a clinical encounter
- Recommend and interpret common diagnostic and screening tests
- Enter and discuss orders and prescriptions
- Document a clinical encounter in the patient record
- Provide an oral presentation of a clinical encounter
- Form clinical questions and retrieve evidence to advance patient care
- Give or receive a patient handover to transition care responsibility
- Collaborate as a member of an interprofessional team
- Recognize a patient requiring urgent or emergent care and initiate evaluation/management
- Obtain informed consent for tests and/or procedures
- Perform general procedures of a physician
- Identify system failures and contribute to a culture of safety and improvement

The elective component provides students the opportunity to revisit foundational principles that are a component of the EVMS undergraduate medical school curriculum to prepare them for their specialty.

Course Objectives

1. Apply knowledge of GME to an understanding of the role of an intern: rights, responsibilities and professionalism.
2. Apply core knowledge of basic medical principles to an understanding of how to maximize patient care.
3. Demonstrate knowledge and competence in performing basic skills used as an intern
4. Examine health care related issues utilized in the practice of medicine

Course Specifics

Report First Day	Participants will be sent instructions with course time and location prior to first meeting date
Student Efforts	
Evaluation	Direct observation
Other	n/a

Site Compliance Requirements

Hospital 1	Non-hospital Experience
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Course Information

Course Director	Bruce Britton, MD	Course Categories	Required for EVMS students
Location	EVMS and online	Main Contact	Amanda Bush
Period Offered	July-November, January-March	Contact Email	bushaa@evms.edu
Duration	2 weeks	Contact Phone #	757-446-7460
Restrictions	n/a	Pre-Requisites	None
# of Students	18 per month	Night Call	No

Course Description

This is a hybrid learning experience which means you will be learning and engaging with the content and each other in person as well as in an asynchronous online learning environment. You will be learning, getting to know each other and working together in an online learning environment, via the Internet, throughout the 2-week long IPE Learning Experience.

During this course you will:

1. complete discussion board assignments based on multimedia learning modules
2. participate in a day-long standardized patient workshop utilizing telehealth and home monitoring technology
3. be trained to develop websites and Apps to provide care at a distance
4. develop and present either a website or an App on an interprofessional team

Course Objectives

After completion of this 2 week long learning experience the student will be able to:

1. Identify core competencies for Interprofessional Practice and Collaboration
2. Given a scenario or case study, identify a collaborative interaction
3. Define interprofessional education
4. Describe the benefit and necessity of interprofessional team approaches in complex health systems
5. Identify goals for interprofessional practice
6. Compare personal values and professional codes of ethics
7. Identify and describe professional codes of ethics for other members of the healthcare team and potential conflicts of interest
8. Introduce and describe ethical analysis and Ethical Decision Making Framework for Interprofessional Collaboration and Practice
9. Delineate role of the interprofessional healthcare team in ethical-decision making
10. Utilize Technology/Telehealth to function in an interprofessional team
11. Identify barriers (legal, professional and structural) to establishing technology supported interprofessional collaboration
12. Define multiple chronic conditions (MCC)
13. Describe the impact of MCC on healthcare
14. Delineate strategies to provide preventative care for clients with MCC
15. Describe National Healthcare models and imbalances in the U.S. Healthcare System
16. Outline key aspects of the Affordable Healthcare Act as it impacts Interprofessional Practice
17. Identify attributes and evidence for the Patient Centered Medical Home (PCMH), Community Health Centers (CHC), and Accountable Care Organizations (ACO)

Course Specifics

Report First Day	Report via email to course administration and to Skills Center for one day of simulations and course work
Student Efforts	7 hours of face to face course work and simulations. 5 to 10 hours of computer based work
Evaluation	Rubric based evaluation F/P/HP/H based on participation and quality of team work on assignments.
Other	n/a

Site Compliance Requirements

Hospital 1

Non-hospital Experience

Course Information

Course Director	Erika Rhone, MD	Course Categories	Scholarly Activity
Location	Any	Main Contact	Erika Rhone, MD
Period Offered	July 1, 2017 - March 26, 2018	Contact Email	rhoneet@evms.edu
Duration	Longitudinal for 2 weeks credit	Contact Phone #	
Restrictions	n/a	Pre-Requisites	Planning worksheet
# of Students	150	Night Call	No

Course Description

The scholarly activity requirement is designed to provide the basic tools and opportunity to develop research skills that add value to clinical knowledge and practice.

Participation in scholarly activity is a program requirement for accreditation by the ACGME (Accreditation Council for Graduate Medical Education) for all training specialties with the purpose of advancing knowledge of the basic principles of research including how research is conducted, evaluated, explained to patients, and applied to patient care.

This course provides protected time for the opportunity to further develop an area of interest and lay the foundation for a professional identity that includes systematic investigation and problem solving. Students will contribute a scholarly work to one of the 4 main domains of scholarly activity including DISCOVERY (advancing knowledge), INTEGRATION (synthesizing knowledge), APPLICATION (applying existing knowledge), or TEACHING (disseminating current knowledge).

Course Objectives

- Learn principles of evidence-based medicine and research including:
 - Study Design
 - Research Ethics and Bias
 - How to contribute to a culture of safety and improvement through quality improvement
- Form clinical questions and retrieve evidence to advance patient care
 - Develop well-formed, focused, pertinent clinical questions based on clinical scenarios, real-time care of a patient, or a panel of patients
 - Demonstrate curiosity, objectivity, and scientific reasoning
 - Present credible research questions and hypotheses
- Demonstrate awareness and early skill in the critical appraisal of sources and content of medical information
 - Able to perform a literature review
 - Able to read and assess articles
 - Assess applicability and generalization of the information
- Further develop skills to synthesize and interpret data gathered from observations and analyses to prepare a scholarly work product

Course Specifics

Report First Day	Complete planning worksheet
Student Efforts	1. EBM Online Module 2. Attendance at 4 workshops aimed to advance skills in development, completion and presentation of scholarly work 3. Submission and presentation of a scholarly activity project completed during medical school as an oral or poster presentation
Evaluation	Projects will be reviewed by a panel and “accepted” “accepted with minor revisions” “accepted with major revisions” or “not accepted”
Other	n/a

Site Compliance Requirements

Hospital 1	Non-hospital Experience
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Course Information

Course Director	Steven D. Wohlgemuth, MD	Course Categories	Elective
Location	Sentara Comprehensive Weight Loss Solutions 6333 Center Drive, Interstate Corporate Center Bldg ., #6, Norfolk VA 23502	Main Contact	Joy Redublo
Period Offered	March	Contact Email	jbredubl@sentara.com
Duration	4 weeks	Contact Phone #	757-252-9527
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per block	Night Call	No

Course Description

This elective offers the M4 student the opportunity to observe and participate in the medical and surgical management of obesity in the context of an innovative community private practice. Students will spend 1-3 days per week in the surgical and medical outpatient clinic and 1-3 days per week in the Sentara Norfolk General Hospital Operating Room. Students will observe and assist with pre-operative and post-operative patient care in clinic and in the hospital. Motivated students will have opportunities to scrub in for laparoscopic surgeries. Students will learn about private practice management and the business of medicine within a large healthcare system. Students will present a research topic during the final week of the elective.

Obesity is a major complex issue for every medical specialty. Over one third of people in the United States are obese. 300,000 US residents die of obesity-related disease every year. The cost of obesity in the United States is over \$1.5 billion per year. Since 2001, Sentara Comprehensive Weight Loss Solutions has provided rigorous, realistic patient care for those who struggle to lose weight. Medical management is centered on treating the disease processes that accompany obesity, including diabetes, hypertension, hyperlipidemia, pain and fatigue. Patients interested in bariatric surgery spend 6 months preparing physically and emotionally. Surgical procedures such as the laparoscopic sleeve gastrectomy serve as a powerful tool to improve the odds of achieving and maintaining a healthy weight over a life time. Surgical outcomes include outright cure of insulin resistance and marked improvement in weight loss over time.

Course Objectives

1. Acquire a working knowledge of the epidemiology of obesity, the history of obesity interventions and the best practices in treatment and long term management.
2. Develop and demonstrate understanding of the surgical processes, complications and outcomes of bariatric surgeries.
3. Develop and demonstrate understanding of the psychosocial and medical issues in obesity and its consequent diseases and varying clinical approaches that lead to success.
4. Present a topic of current interest in obesity management to the outpatient clinic staff.

Course Specifics

Report First Day	Contact Joy Redublo to arrange
Student Efforts	20-60% OR, 20-60% outpatient, 0-20% study time according to student needs and interest.
Evaluation	Clinical evaluation based on the above objectives, 25% each
Other	n/a

Site Compliance Requirements

Hospital 1 | Sentara, Norfolk General Hospital

Course Information

Course Director	Eric Werner, MD	Course Categories	Elective, Scholarly Activity
Location	EVMS	Main Contact	Eric Werner, MD
Period Offered	March	Contact Email	eric.werner@chkd.org
Duration	4 weeks	Contact Phone #	757-668-7475
Restrictions	n/a	Pre-Requisites	None
# of Students	20	Night Call	No

Course Description

EVMS students will engage in a month of training on the basics of business management including understanding health policy, finance, quality, professional development, organizational behavior and leadership. The goal will be to equip students with a basic understanding of personal finances, practice efficiency and general management principles. To achieve this, a curriculum has been developed that will be delivered in a seminar environment with lectures and group discussions. Faculty will include local experts of varied backgrounds whose teaching will be supplemented with self-study reading materials. The resources used for self-study will include but not be limited to articles/training modules from the American College of Physician Executives, American Medical Student Association as well as a required textbook. Finally, students will create a project to teach their classmates about an aspect of business in medicine in which they have developed an interest.

Course Objectives

- Provide a basic training in organizational and financial management of a medical business operation with special emphasis on:
 - » Finances-with the goal of understanding of differences and similarities between on not-for-profit and for profit organizations, current and projected future health care delivery environments, quality and physician certification and licensure requirements. Basics of personal wealth will also briefly be discussed, along with explanations of various reimbursement models
 - » Management – an introduction to basic management principles for motivating, training, and retaining staff.
 - » Legal – Basic principles and key statutes related to medical practices. Approaches to decrease medical-legal risk will be discussed.
 - » Clinical Efficiency – This section will include proven techniques and advice from practicing physicians/business leaders in increasing office efficiency to maximize the provider’s time with the patient.
- Students will devise their own project to contribute to their peer’s understanding of business in medicine. Possibilities include, but are not limited to:
 - » Interviewing a business leader with a focus on one business principle, and presenting their findings to the class.
 - » Writing up a concise business model for an outpatient clinic.
 - » Research and present basics of group practice, or other employment models for providers such as community health centers, academic medicine, etc.

Course Specifics

Report First Day	EVMS, Lewis Hall, Room 1184
Student Efforts	Students will spend 12–16 hours each week attending lectures/group discussions, as well as approximately 10–15 hours per week in self-study. Approximately five hours each week will be devoted to the development of the student’s project.
Evaluation	Grade (P/F) will reflect attendance, preparation for class, participation in discussion and the business in medicine project.
Other	n/a

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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Course Information

Course Director	Mary Rubino, MD	Course Categories	Elective
Location	EVMS	Main Contact	Mary Rubino, MD
Period Offered	Longitudinal: July-April	Contact Email	rubinomc@evms.edu
Duration	Longitudinal	Contact Phone #	757-446-5023
Restrictions	n/a	Pre-Requisites	None
# of Students	30	Night Call	No

Course Description

The Junior Facilitator experience allows fourth-year medical students the opportunity to assist EVMS faculty in leading Clinical Skills small group sessions for first and second-year students. This is a longitudinal experience that begins with training concerning facilitating small group learning, giving strategic feedback, and evaluating learner performance. The participant will assist faculty leaders in leading small group discussions, overseeing simulated patient interviews relevant to medical history and physical exam topics and guiding discussions about medical decision making.

The preparatory course is offered in July and August with small groups beginning in mid- August and extending through mid-March. Small groups are coordinated with the M1 and M2 schedules and observant of vacation time. Sessions are held on Tuesday or Thursday afternoon in the Sentara Center for Simulation and Immersive Learning.

By meeting the requirements of the course the student will accrue two weeks of M4 credit

Course Objectives

The experience offers students a chance to develop educational skills that will become increasingly important during their post graduate training and careers. It also provides them an opportunity to contribute to the education of their fellow students.

Course Specifics

Report First Day	Dates of small group facilitation training will be emailed to students in approximately May or June by Malissa Nes-bit, including details of time, date and location.
Student Efforts	
Evaluation	
Other	Students must be able to attend one of the two training sessions and participate in at least two-thirds of the small group sessions that span the academic year.

Site Compliance Requirements

Hospital 1	Non-Hospital Experience
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Course Information

Course Director	Paul Chidester, MD FACP	Course Categories	Elective, Scholarly Activity
Location	Sentara, Norfolk General Hospital	Main Contact	Susan Schriever
Period Offered	August, October, January, March	Contact Email	sfschrie@sentara.com
Duration	4 weeks	Contact Phone #	757-388-4853
Restrictions	n/a	Pre-Requisites	None
# of Students	2 per block	Night Call	No

Course Description

This course will expose students to leadership tools that will enhance physician decision-making in the workplace. The course explores conflict resolution, situational leadership styles, how to give effective feedback, change management principles as well as techniques to influence behavior and ensure success in performance improvement initiatives in the healthcare environment.

Course Objectives

Upon complete of this rotation the student will be able to:

1. Understand situational leadership styles and how to apply them for best results.
2. Design and organize a performance improvement project for a clinical unit.
3. Demonstrate effective feedback and conflict resolution methods for various situations.

Course Specifics

Report First Day	Sentara Norfolk General Administration, 1st floor off Kaufman Lobby
Student Efforts	
Evaluation	25% Clinical Observation, 25% Paper or relevant topic, 50% presentation of PI initiative
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Paul Chidester, MD FACP	Course Categories	Elective, Scholarly Activity
Location	Sentara, Norfolk General Hospital	Main Contact	Susan Schriever
Period Offered	August, October, January, March	Contact Email	sfschrie@sentara.com
Duration	4 weeks	Contact Phone #	757-388-2469
Restrictions	n/a	Pre-Requisites	None
# of Students	4 per block	Night Call	No

Course Description

This course will expose students to the tools and resources available to hospitals to support a culture that's provides safe patient care. The student will learn how safety is measured and monitored. The student will participate in Root Cause Analysis (RCA) training and will participate in a RCA team. The course is part classroom and part interaction with the leadership team that manages and ensures a safe environment.

Course Objectives

Upon complete of this rotation the student will be able to:

1. Recognize safe and unsafe behaviors that impact patient care.
2. Describe leading and lagging indicators and understand how safety is measured and reported on in a tertiary hospital.
3. Understand analysis of serious safety events, and conduct analysis of events using various tools to include RCA, FMEA, and ACA.

Course Specifics

Report First Day	Sentara Norfolk General Administration, 1st floor off Kaufman Lobby
Student Efforts	
Evaluation	25% Clinical Observation, 25% paper on relevant topic, 50% presentation of RCA
Other	n/a

Site Compliance Requirements

Hospital 1	Sentara, Norfolk General Hospital
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Course Information

Course Director	Allison Knight, PhD	Course Categories	Elective
Location	EVMS	Main Contact	Allison Knight, PhD
Period Offered	July - April	Contact Email	knightsap@evms.edu
Duration	Longitudinal	Contact Phone #	757-446-7275
Restrictions	n/a	Pre-Requisites	None
# of Students	19	Night Call	No

Course Description

The M4 Facilitator experience allows fourth-year medical students the opportunity to assist EVMS faculty in developing and delivering content for first, second, and third-year students in the Student/Physician Wellness course. This elective is a longitudinal experience that begins with training on facilitating small group learning, understanding course principles, and giving strategic feedback. The participant will assist faculty leaders in leading small group discussions about student/physician wellness, preparing/giving didactic lectures, and monitoring student engagement with assignments.

The preparatory training is offered in July and August with small groups beginning in mid-August and extending through early April. Small groups are coordinated with the M1, M2, & M3 schedules, observant of vacation time. Students must be able to attend one of the two training sessions, prepare for course sessions by reading/watching preparatory materials and engaging in the reflection assignments, and participating in at least 8 of the planned small group sessions that span the academic year for M1s, M2s, and M3s. Students will also be required to submit a journal reflection and a 1-3 minute video reflection at the end of the course that will be graded by rubric.

Course Objectives

The experience offers students a chance to develop and become proficient in skills that will enhance their own career resilience, contribute to the education of their fellow students, prepare them for leadership roles in physician wellness, and potentially enhance their clinical practice. By participating in the course, students will achieve the following objectives:

1. Develop the knowledge and skills to contribute to didactic material and potentially facilitate small group session discussions for M1/M2/M3 students on wellness issues
2. Develop the knowledge and skills to apply personal wellness principles to their future careers via personal reflection
3. Develop the knowledge and skills to apply wellness principles to their future work with trainees, patients, or other health-care professionals via a 1-3 minute video

Course Specifics

Report First Day	Participating students will be invited to a training in July or August and given instructions about reporting on that date.
Student Efforts	By meeting the requirements of the course the student will accrue two weeks of M4 credit.
Evaluation	<p>Pass/Fail - All three parts must be passed to pass the course.</p> <ol style="list-style-type: none"> 1. Attendance: Facilitate 8 possible sessions (observation) 2. Journal: Complete a 500-word journal reflection about a personal component of wellness you applied during medical school and how/why it worked for you. Journal completion will be assessed by absence of grammar or spelling errors and by a checklist of needed components (provided during the course). All journal entries will be held in strict confidence and will be destroyed at the end of the course for your privacy. Analysis of major themes will be completed by the course directors for curriculum improvement. No personal information will be used in any manner. 3. Video: Construct a 1-3 minute video to communicate ways to practice wellness, in one of the three following ways: <ol style="list-style-type: none"> 1. Patient wellness – What have you learned as a result of the course (1) to help patients apply wellness principles to their own care or (2) to apply to your practice to facilitate patient wellness? 2. Student wellness – What have you learned as a result of the course to help other students apply wellness principles to their own journey in medical school? 3. Professional wellness – What have you learned as a result of the course (1) to help other health-care professionals apply wellness principles to their own care or (2) to contribute toward a healthy working environment? <p>The video can be developed with other M4 Wellness Facilitators. Video completion will be evaluated by a rubric (provided during the course).</p>
Other	By meeting the requirements of the course the student will accrue two weeks of M4 credit .

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Bryan R. Fine, MD MPH	Course Categories	Elective
Location	Throughout Norfolk with Percentric consulting	Main Contact	Bryan R. Fine, MD MPH
Period Offered	Continuously	Contact Email	bfinemd@percentric.com
Duration	2 or 4 weeks	Contact Phone #	202-368-6336
Restrictions	n/a	Pre-Requisites	None
# of Students	1-2 per block	Night Call	No

Course Description

This course will offer aspiring clinicians a unique view into the world of healthcare policy and finance. Students will be introduced to thought-leaders in healthcare finance, and will be granted intimate access and exposure to the real-world financial ramifications of the clinical decisions they will soon be making. Through readings, exercises, and site visits, students will come to better understand health benefits in the private sector and how the associated costs play into business strategic planning; will see how those health benefits (health insurance) are understood by patients and physicians; and, will see how the choices made by employers and employees can have profound, long-lasting implications on socioeconomic wellness. Students will also become familiar with administrative tasks and learn software skills that will make them better physicians and better business men and women in the future.

Course Objectives

During this course participants will:

1. Understand and critically assess the insights and values of current thought leaders in the world of health policy and healthcare costs
2. Engage individuals and employers directly to ask and answer questions about health insurance nuances and subtleties
3. Gain access to an intimate level of “medical entrepreneurship” and come to see how small businesses start, sustain and grow
4. Evaluate whether incorporating financial considerations into the fabric of medical decision-making is an effort worthy of learned pursuit
5. Improve skills at chosen software programs, be it Excel, Adobe Suite and/or Filemaker

Course Specifics

Report First Day	Contact Dr. Fine 2 weeks prior to the start of the elective for instructions
Student Efforts	30-40 hours/week, variable time. No clinical contact. 10 hours/week reading, 10-20 hours/week individual engagements, and 10 hours/week software skill management.
Evaluation	50% participation, 50% End-of-Rotation Project
Other	

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	James G. Dixon, MD	Course Categories	Elective
Location	EVMS, Department of Internal Medicine Hofheimer Hall	Main Contact	Yolanda Arriaga
Period Offered	August - February	Contact Email	arriagym@evms.edu
Duration	Longitudinal for 4 weeks of credit	Contact Phone #	757-446-7141
Restrictions	n/a	Pre-Requisites	n/a
# of Students	2-8 per block	Night Call	No

Course Description

This M4 longitudinal elective is designed to further understanding of and develop practical approaches to several non-reproductive women's health medical issues. The elective will be most applicable to M4s who will train in Family Medicine, Internal Medicine or OB/GYN. Participants will be provided learning objectives and reading material in advance of each monthly discussion. Clinical questions that introduce the discussion will be obtained from a variety of sources including the American College of Physicians Medical Knowledge Self-Assessment Program, the OB-GYN residency study guide, the New England Journal's case based clinical discussions, and the Cleveland Clinic's Women's Health Updates. We will advance our clinical knowledge of common issues in women's health by taking advantage of review articles and examining pertinent established and new literature. Guest faculty will occasionally join in the discussions. Several recent position papers (last 18 months) addressing important women's health issues will serve as important resources to participants.

Course Objectives

Breast Density:

1. Understand the implications of the various mammogram breast density categories and be equipped to counsel patients on the impact of increased breast density on breast cancer risk and breast cancer screening strategies
2. Appreciate Nancy Capello's work and the evolving requirement that radiologists include breast density in their mammogram report

Women's Health Initiative:

3. Understand the implications of Bernadine Healy, MD's work and the NIH Revitalization Act of 1993
4. Appreciate the impact of the Women's Health Initiative, then and now, and where the pendulum sits as it pertains to treating menopausal symptoms with hormone replacement therapy

Menopause Symptoms:

5. Be more comfortable assessing the risk and benefits of hormone replacement therapy, and the efficacy of SSRIs and non-hormonal therapies for the treatment of symptomatic menopause
6. Develop an approach to treating the genitourinary syndrome of menopause utilizing topical estrogen, selective estrogen receptor modulators, and moisturizers/lubricants
7. Familiarize themselves with the MenPro app to assist with making decisions about the use of HRT

Osteoporosis:

8. Review the scope of the osteoporosis problem, appreciate an approach to identifying men who should be screened for osteoporosis, and review recent information that impacts the frequency of DEXA scanning

Course Specifics

Report First Day	Contact Ms Arriaga 2 weeks prior to the start of the elective for instructions
Student Efforts	
Evaluation	Pass/Fail. Grading will be based on: <ol style="list-style-type: none"> 1. Quizzes at the end of each topic discussion that are closely tied to the topic objectives. These quizzes will require the student to successfully demonstrate a certain number of skills and demonstrate knowledge of certain key concepts and facts. 2. Evidence of preparation for and engagement during discussion sessions
Other	

Site Compliance Requirements

Hospital 1	Non-hospital experience
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INTERNATIONAL ELECTIVES

Course Information

Course Director	William P. Magee, MD	Course Categories	Elective
Location	Low and middle-income countries	Main Contact	Alexandra Leader, MD
Period Offered	Continuously	Contact Email	leaderap@evms.edu
Duration	2 weeks	Contact Phone #	757-321-7645
Restrictions	n/a	Pre-Requisites	Contact site for application
# of Students	1 per block	Night Call	Possible

Course Description

Operation Smile envisions a world where every person has access to safe, well-timed and effective surgery. To make this vision a reality we work day in and day out around the world to equitably increase access to high quality surgical care. The student will observe reconstructive surgery and longitudinal care of children as a member of a multi-disciplinary medical team. The student will shadow various medical members of the team, and as such will follow patients pre-operatively, intra-operatively, and post-operatively as they gain a perspective on patient care in a resource-poor environment. The student will participate in patient education as well as observe the emphasis placed on education of team member counterparts in a developing country. The student will be responsible for the cost of their travel and accommodations, which vary depending on location.

Contact: Operation Smile Education Department 757-321-7645

Course Objectives

1. Exposure, observation and participation in the pre-operative diagnosis of patients with facial deformities.
2. Observe basic principles of reconstructive and corrective surgery – specifically cleft lip and palate.
3. Understand patient care both theoretically and clinically.
4. Appreciate the role of longitudinal care in total patient care.
5. Appreciate the humanitarian responsibilities of a physician.
6. Set a precedent for the altruistic aspect of future physicians' practice.
7. Exposure to patient care, utilizing limited resources in low- and middle-income countries.

Course Specifics

Report First Day	Contact for instructions
Student Efforts	Dependent upon location
Evaluation	100% clinical evaluation
Other	n/a

Site Compliance Requirements

Hospital 1	n/a
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Course Information

Course Director	Alexandra Leader, MD	Course Categories	Elective
Location	Physicians for Peace World Headquarters, Norfolk, VA and/or a Physicians for Peace Medical Mission in a developing country	Main Contact	Alexandra Leader, MD
Period Offered	Call to confirm	Contact Email	leaderap@evms.edu
Duration		Contact Phone #	757-446-5642
Restrictions	n/a	Pre-Requisites	Application
# of Students	TBD	Night Call	Possible

Course Description

The elective will introduce students to international medicine as delivered by Physicians for Peace (PFP), an internationally recognized, award-winning organization established by Dr. Charles Horton, founder of the Division of Plastic Surgery at Eastern Virginia Medical School. Its distinguishing philosophy is to combine teaching and medical education with interdisciplinary medical missions in developing countries.

Course Objectives

The goals of this elective are to:

1. Appreciate alternative medical care options based on the cultural, geographical and economic realities of the host country
2. Learn, evaluate and propose systems of care
3. Improve medical and diagnostic skills
4. Develop cultural and contextual competencies
5. Appreciate the role of psychosocial factors in health care
6. Identify funding sources for international health care
7. Serve the underserved
8. Promote humanism in medicine

Course Specifics

Report First Day	Physicians For Peace, 229 W. Bute Street, Suite 200, Norfolk, VA (757) 625-7569, Fax (757) 625-7680, e-mail: info@physiciansforpeace.org
Student Efforts	Will vary depending upon the nature of the specific mission or lack thereof at the time of the elective.
Evaluation	If on a medical mission: 50% clinical observation by assigned Physicians for Peace member and 50% written, outcomes-driven, assessment of program's strengths, weakness, a PowerPoint presentation to peers and stake holders. If not on a medical mission: 100% written, outcomes-driven assessment of program's strengths, weaknesses, opportunities, threats (SWOT analysis). The written presentation will be summarized in a PowerPoint presentation to peers and stake holders.
Other	

Site Compliance Requirements

Hospital 1	n/a
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Course Information

Course Director	Steven Warsof, MD	Course Categories	Elective
Location	Bar-Ilan University, Ramat Gan, Israel	Main Contact	Alexandra Leader, MD
Period Offered	Call to confirm	Contact Email	leaderap@evms.edu
Duration	Call to confirm	Contact Phone #	757-446-7197
Restrictions	Two students will be selected on a competitive basis.	Pre-Requisites	Application
# of Students	2	Night Call	Possible

Course Description

This elective permits the assumption of greater patient responsibility on the part of the M4 student both in the outpatient and inpatient settings. This rotation is recommended if a student is interested in pursuing a residency in Ob/Gyn and desire more in depth exposure to the specialty. The faculty will be pleased to attempt to tailor a program to the student's particular interest, but the basic usual expectation should be advanced clinical management and reinforcement of cognitive material and problem solving skills. The student will function as an "acting intern".

Course Objectives

1. To increase and reinforce the basic core knowledge of Ob/Gyn as detailed in the clerkship objectives..
2. To increase skills in clinical evaluation and management judgments.
3. To increase technical skills in Ob/Gyn.
4. To gain greater competence in both acute inpatient ambulatory care and treatment.

Course Specifics

Report First Day	Distribution of M4 time will be individualized. Available clinical areas include outpatient high risk antepartum clinic, ultrasound, outpatient gynecology clinic, outpatient gynecologic oncology clinic, outpatient urogynecology, labor & delivery, high-risk inpatient, postpartum, inpatient gynecology and operating room. The student will be expected to participate in all departmental meetings, including morning reports and grand rounds.
Student Efforts	
Evaluation	35% oral exam/case presentation; 65% clinical observation
Other	http://www1.biu.ac.il/

Site Compliance Requirements

Hospital 1

Course Information

Course Director	Alexandra Leader, MD	Course Categories	Elective
Location	Dependent upon course	Main Contact	Alexandra Leader, MD
Period Offered	Dependent upon course	Contact Email	leaderap@evms.edu
Duration	Dependent upon course	Contact Phone #	757-446-5866
Restrictions	n/a	Pre-Requisites	Application
# of Students	Dependent upon course	Night Call	Possible

Course Description

Vision: To be a community of health professionals transformed by global experiences.

Mission: To provide a global network that facilitates educational mobility for health professionals.

Facilitating Global Health Education

The AAMC recognizes that with ever-increasing globalization in medicine there is growing interest on the part of medical students and medical schools to integrate international electives into their medical education. Global experiences enable students to interact with different patient populations, develop cross-cultural understanding, and learn about health systems in other nations. Increasingly, students are seeking international opportunities from their medical institutions, but not all institutions have the capacity to develop and manage such programs. Global Health Learning Opportunities (VSLO®) (pronounced “glow”), is an application service that facilitates clinical, global health, and research elective rotations globally for final year medical students. The VSLO application service fosters collaboration between U.S. and international medical schools for student mobility to create future global physicians.

The VSLO Collaborative

VSLO’s streamlined application process is used by all VSLO-participating institutions. The VSLO community will assist you with advice from host institutions and medical students, and offers resources for supporting your international travel and temporary stay. Why pursue an elective abroad?

As a VSLO® participant, you will:

- Work with different patient populations
- Learn about global health systems
- Increase your intercultural understanding

Course Specifics

Report First Day	Will be communicated by site after acceptance into the rotation
Student Efforts	Dependent upon course
Evaluation	Dependent upon course
Other	To learn more about VSLO and view the list of participating institutions, visit https://students-residents.aamc.org/attending-medical-school/electives-and-make-courses/global-health-learning-opportunities-VSLO/

Site Compliance Requirements

Hospital 1	Dependent upon rotation
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Compared with their urban counterparts, residents of rural counties are:

- Older,
- Poorer, and
- Sicker (a higher percentage of residents has activity limitations due to chronic health conditions) (Meit, et al., 2014).

The life expectancy for U.S. residents decreases as the level of rurality increases:

- In 2005 - 2009, those living in large metropolitan areas had a life expectancy of 79.1 years compared with 76.7 years for those living in rural areas.
- This disparity widened over time.
- Causes of death contributing most to lower life expectancy in rural areas include:
 - » Heart disease,
 - » Unintentional injuries,
 - » Chronic obstructive pulmonary disease,
 - » Lung cancer,
 - » Stroke,
 - » Suicide, and
 - » Diabetes (Singh & Siahpush, 2014).

* Data taken from the 2014 National Healthcare Quality and Disparities Report: Chartbook on Rural Health Care: <https://www.ahrq.gov/sites/default/files/wysiwyg/research/findings/nhqdr/2014chartbooks/rural-health/2014nhqdr-ruralhealth.pdf>

Course Information

Course Director	Bruce Britton, MD	Course Categories	AMB
Location	Rural Community with Physician who holds an EVMS Community Faculty Appointment	Main Contact	Amanda Bush
Period Offered	Continuously	Contact Email	bushaa@evms.edu
Duration	2 or 4 weeks	Contact Phone #	757-446-7460
Restrictions	n/a	Pre-Requisites	none
# of Students	2 per block	Night Call	Yes

Course Description

This elective is designed to provide an in-depth experience in community/rural medicine. Student will work with a family physician in a rural primary care office. Travel may be necessary to Franklin/Courtland, VA, Western Tidewater, the Eastern Shore, or other sites.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Identify special health conditions within the rural populations.
2. Identify the nutritional factors in rural population which contribute to their health problems.
3. Recognize the environment, family situations, and social structures as important contributions to the health status of an individual.
4. Describe the contribution poverty plays in the distribution of infections and chronic diseases, especially among rural populations.
5. Demonstrate health education skills.

Course Specifics

Report First Day	Family Physician who holds an EVMS Community Faculty appointment
Student Efforts	Patient Contact: 80% Outpatient; 10% Inpatient, 10% study/reading time
Evaluation	The student's final grade will be based on performances and completion of course objectives as evaluated by the assigned preceptor.
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Angelica Perry, DO	Course Categories	AMB
Location	Eastern Shore of Virginia and Tangier Island	Main Contact	Amanda Bush
Period Offered	Call to Confirm	Contact Email	bushaa@evms.edu
Duration	2 - 4 weeks	Contact Phone #	757-446-7460
Restrictions	n/a	Pre-Requisites	
# of Students	2 per block	Night Call	Yes

Course Description

This elective is designed to provide an in-depth experience in frontier/rural medicine, experience with environmental and occupational health, inter-professional team based care, and health information technology (HIT) that ridges care for frontier populations. Student will work with a family physician in rural primary care office and in the Frontier Community Clinic (<http://tangierclinic.org/>) with Physician Assistant Inez Pruitt. Travel will be necessary to the Eastern Shore and Tangier Island. Students should be prepared to stay in housing/dorm provided. Students will need to undergo rotation specific training for Riverside Health Systems prior to clinical experiences. Students should be prepared to fly to Tangier Island with physician supervisor or take the ferry.

Course Objectives

Upon completion of this rotation the student will be able to:

1. Identify special health conditions within the eastern shore and Tangier Island populations. Student will review information on unique population needs of Tangier Island residents provided by supervising physician.
2. Identify the unique barriers to health care in frontier populations and the systems and team required to bridge those barriers including physician extenders and telemedicine. Student will work with inter-professional team, utilize HIT to communicate with supervising physician.
3. Recognize the occupational, environmental, family systems, and social structures as important contributions to the health status of an individual.
4. Work with and communicate with Rural Health Department to better understand links with public health services. Student will communicate with Director of Eastern Shore Rural health regarding public health initiatives to improve health of Tangier Island and Easter Shore Virginia.
5. Demonstrate health education skills that are sensitive to unique culture of Tangier Island residents.

Course Specifics

Report First Day	Angelica Perry, DO
Student Efforts	Patient Contact: 90% Outpatient; 10% study/reading time
Evaluation	Upon completion of elective objectives, the student's final grade will be completed by supervising physician and based on observations and evaluations from PA and Medical Director of the Eastern Shore Health Department.
Other	N/A

Site Compliance Requirements

Hospital 1	Non-hospital experience
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Course Information

Course Director	Robert Paschall, MD	Course Categories	AMB
Location	Riverside, Shore Memorial Hospital	Main Contact	Robert Paschall, MD
Period Offered	Continuously	Contact Email	
Duration	4 weeks	Contact Phone #	757-414-8000 or 757-414-6600
Restrictions	n/a	Pre-Requisites	None
# of Students	1-3 per block	Night Call	Yes

Course Description

This program offers a perspective in internal medicine and its subspecialties available in a rural, referral hospital. Student responsibility is commensurate with interest and capability. The student will be expected to act as a house officer. Students from MCV rotate regularly through this hospital. A private suite of rooms is available, with meals and laundry provided. The expense of room and board are borne by the hospital.

Course Objectives

1. Learn how internal medicine and its subspecialties can be applied in a small community hospital.
2. Contact with a private practitioner - one-on-one
3. Function as a house officer.

Course Specifics

Report First Day	
Student Efforts	Patient Contact: 40% Inpatient, 60% Outpatient; 10 hrs/wk rounds; 2 hr/wk conferences/lectures; 10 hrs/wk study/reading time; 60 hrs/wk faculty contact time and ward work.
Evaluation	50% oral exam, 50% clinical observation
Other	n/a

Site Compliance Requirements

Hospital 1 | Riverside, Shore Memorial Hospital, Nassawadox Virginia

Course Information

Course Director	Potter Henderson, MD	Course Categories	AMB, Elective, Scholarly Activity
Location	Eastern Shore, Community Services Board 19056 Greenbush Road, Parksley VA 23421	Main Contact	Potter Henderson, MD
Period Offered	Continuously	Contact Email	potterhendersonmd@gmail.com
Duration	2 weeks	Contact Phone #	757-708-2149
Restrictions	n/a	Pre-Requisites	None
# of Students	1 per 2-week experience	Night Call	No

Course Description

This clinically oriented elective will provide the student with exposure to rural mental health care for children, adolescents and adults in the outpatient setting. The student will participate in psychiatric evaluations and develop an understanding of the etiology, presentation, diagnosis, treatment and prognostic variables of psychiatric disorders and the delivery of care in a rural setting. The realms of anxiety, affective/mood disorders, neuro-developmental disorders, psychotic illness will be explored. Through evaluations, follow-up visits, and case presentations, the student will gain an appreciation of formulating cases with attention to biological, psychological/developmental and social/culture perspectives. The elective curriculum would include content on mental health disparities in rural areas and in the Eastern Shore. Students would be encouraged to develop case reports with their preceptors. Students will live on Virginia's Eastern Shore during this rotation in the College of William & Mary – Virginia Institute of Marine Science cottages.

Course Objectives

1. To experience life in a rural community and gain personal confidence and competence in assuming the role of a rural mental healthcare physician.
2. To understand rural healthcare and mental health disparities.
3. To obtain knowledge relevant to providing psychiatric care to children and adolescents, adults and families.
4. To advance data gathering and interviewing skills with children, adolescents, adults and families.
5. To learn how to address the mental health needs of the child, adolescent and the family.
6. To gain knowledge of psychiatric disorders that affect children and adolescents and adults.
7. To develop skills to become a life-long independent learner.

Course Specifics

Report First Day	Eastern Shore, Community Services Board 19056 Greenbush Road, Parksley VA 23421
Student Efforts	80% clinical contact, 20% study/reading time
Evaluation	Clinical observation based on the aforementioned objectives and one of the following assignments. <ol style="list-style-type: none"> 1. Write a paper or case report and include discussion about rural healthcare and mental health disparities. 2. Give a presentation about a mental health topic in the community (examples: local school students on bullying or depression etc., or to local parents on psychiatric medications for children, etc.) this needs to be approved by the rotation supervisors as well.
Other	n/a

Site Compliance Requirements

Hospital 1	Non-hospital Experience
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