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PROCEDURE FOR ENROLLING IN FOURTH YEAR ELECTIVES – NYMC-SOM STUDENTS

A. ELECTIVES AT NYMC AFFILIATED HOSPITALS:

- Complete the appropriate electronic elective application form. A copy of this form can be found in the Appendix to this document.

B. APPLYING FOR ELECTIVES OFFERED BY OTHER LCME ACCREDITED MEDICAL SCHOOLS:

Visiting Student Electives offered through Visiting Student Application Service (VSAS), follow the VSAS procedures (https://services.aamc.org/20/vsas/).

1. To Apply to Non-VSAS Electives:
   a. Contact the hospital or medical school sponsoring the elective and request an elective application form. Complete the form as indicated.
   b. Submit the sponsoring hospital's/school's elective application form to the Office of Student Affairs.
   c. Your application will be processed by the Office of Student Affairs and forwarded to the appropriate institution.

2. Typically, the sponsoring school will contact the individual student directly to inform him/her about their acceptance.

3. Once informed about an accepted elective, the student should submit a copy of the elective acceptance AND the NYMC away elective form, signed by the students advisory dean to the Office of Student Affairs.

4. Students are responsible to provide confirmation of all away electives and to maintain an up-to-date and accurate schedule with Student Affairs and the Registrar.

C. NON-CATALOGUE / MEDICAL EDUCATION CLINICAL & RESEARCH ELECTIVES: (For research opportunities, please refer to the Research Catalogue)

1. NYMC-SOM students have the opportunity to tailor-make unique, non-catalogue electives and submit them to approval if they meet pre-requisite criteria.

2. The criteria for tailor made electives include:

   a. Faculty Mentor must be appointed to NYMC faculty.
   b. Description includes defined goals and measurable objectives.
   c. The course description should be concise and clearly state how the student will be spending his/her time during the elective.
3. A completed Independent Clinical/Research Study Elective form must be submitted as a signed pdf to ElectivesYR4@nymc.edu two months in advance of the start date to allow for revisions. This form must be completed and submitted to Student Affairs office with all needed signatures one month prior to the start of the MS4 block, otherwise it will be rejected.

D. PROCEDURE FOR DROPPING ELECTIVES:

1. Permission to drop a scheduled elective course can be petitioned at least one month prior to the scheduled starting date.
2. The student is responsible for contacting the institution/preceptor to notify them about the change in schedule.
3. The student is also required to submit a completed "Elective Add/Drop Form" to the Office of Student Affairs.
4. After having followed the procedure outlined above, students are free to apply for additional elective courses.

E. PROCEDURE FOR SUBMITTING FORMS TO MEDICAL STUDENT AFFAIRS

1. All forms should be submitted to Medical Student Affairs in electronic form.
2. Students should submit their forms by uploading them to your “My Documents” in ePortfolio. Be sure to give the form file a name that includes your name and what the form is for (e.g., your name_drop_cardio.pdf)
3. If parts of your elective application are being submitted to Medical Student Affairs by someone other than the student, they can be sent to msastaff@nymc.edu.
PROCEDURE FOR ENROLLING IN FOURTH YEAR ELECTIVES – VISITING STUDENTS

INFORMATION

New York Medical College-SOM is a participant as a Host School in VSAS; the Visiting Student Application Service. We accept visiting students from LCME accredited and Allopathic AOA accredited osteopathic schools. Applications may be submitted through VSAS starting on May 1, 2016 and will be processed by the Office of Student Affairs.

Any inquiries concerning the status of a VSAS application should be directed to: msastaff@nymc.edu

INTERNATIONAL STUDENTS

Fourth year students from non LCME accredited international institutions may inquire regarding the availability of electives by contacting Ms. Elizabeth Ward, (International Scholars liaison) in our International Scholars Office who will be able to assist you. Ms. Ward can be reached at 914-594-4846 or by e-mail: Elizabeth_Ward@nymc.edu

HOUSING ACCOMMODATIONS

New York Medical College welcomes visiting students and hopes that the time that you spend during your clinical elective assignment with us will be a rewarding experience. Unfortunately, we cannot provide housing accommodations at any of the sites for our elective rotations. When planning your NYMC elective you should consider accommodations and their associated expense.

If you need to make housing arrangements, you should contact the departmental coordinator for the course/program which you will be taking. The coordinator may be able to provide you with valuable information housing options at or near that site (including sublets, dormitories or apartments for hospital staff, etc.) or other suggestions for securing convenient accommodations.
SECTION: ANESTHESIOLOGY

Department: Anesthesia

Name of Elective: ANESTHESIOLOGY

**Course Description:** This elective integrates students into the anesthetic team and provides students with an overview of clinical anesthesiology with an emphasis on pre-operative evaluation, anesthetic decision making, airway management, pulmonary and cardiac physiology, anesthetic pharmacology, and basic and invasive monitoring. Students will also have the opportunity to receive instruction in the following technical skills: endotracheal intubation, airway management, central venous cannulation, arterial cannulation, swan ganz catheterization, invasive and noninvasive patient monitoring, and regional anesthesia and nerve blocks. During the elective, interested students will have the opportunity to explore several of the anesthetic subspecialties (e.g. OB, cardiac, pediatrics, pain, neuroanesthesia).

**Goals & Objectives:** By the end of this elective students will be able to:

1. Perform pre-anesthetic evaluations of patients (including history-taking, physical examination, and analysis of common laboratory results) and present these findings in an organized fashion.
2. Understand the basic principles of administering regional and general anesthesia, IV sedation, and monitored care, as well as the side effects and complications of the various anesthetics and anesthetic interaction with surgery.
3. Develop a rational plan of anesthetic management.
4. Be able to assess a patient's respiratory status and develop basic airway management skills, including mask ventilation, tracheal intubation, and laryngeal mask airway insertion.
5. Develop an understanding of the physiologic effects of sedatives, analgesics, and muscle relaxants and be able to recommend appropriate choices of anesthetic therapy in uncomplicated normal patients undergoing non-complex surgeries.
6. Develop proficiency in establishing venous access.
7. Be able to assess a patient's fluid status and recommend appropriate fluid therapy.
8. Understand the principles of basic monitoring, as well as the indications for invasive monitoring. Be able to describe complications from invasive monitoring techniques.
9. List causes for changes in the hemodynamic status of patients and make appropriate recommendations for choices of corrective therapy.
10. Understand post-anesthetic requirements and be able to design a post anesthesia care unit plan for uncomplicated patients with regard to monitoring of vital signs, required testing, and fluid, oxygen, analgesic, and anti-emetic therapy.
11. Demonstrate a professional attitude in this clinical setting.
12. Explain concepts of acute post-operative pain management.

**Method of evaluation:** Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.
Preferred Dates: Throughout academic year except July

Site/s:

- Metropolitan Hospital, New York, NY 10029  
  Elective Code: ANSM 5101-METHM
- St. Joseph’s Regional Medical Center, Paterson NJ 07503  
  Elective Code: ANSM 5101-STJOM
- Westchester Medical Center, Valhalla, NY 10595  
  Elective Code: ANSM 5101-WMCRM
SECTION: ANESTHESIOLOGY

DEPARTMENT: ANESTHESIOLOGY

ELECTIVE NAME: PAIN MEDICINE **Open to NYMC students only

COURSE DIRECTORS: Garret Weber, M.D. and Nitin Sekhri, M.D.

Course Description: This one month elective is relevant to anyone who will be caring for patients in pain and will provide students with clinical education in all aspects of pain medicine. Students will be exposed to complex inpatient consultations involving a diverse patient population spanning pediatric, trauma, post-surgical and oncology patients as well as outpatient pain consultations in the outpatient practice with a similar scope of practice. Medical students will participate in an extensive number of procedures related to pain medicine, including, but not limited to: cervical and lumbar epidurals, nerve blocks, joint injections, neurolytic procedures, radiofrequency ablation, spinal biopsies, lumbar puncture, kyphoplasty, intrathecal pumps and neuromodulation. Students will learn relevant anatomy, with a focus on the spine, as well as the use of ultrasound, fluoroscopic imaging, and needle localization for injections. Additionally, there will be weekly lectures and journal clubs.

Schedule: Mon-Fri Approximately 8am -5 pm. Location WMC (inpatient on Monday, Thursday and Friday) and 19 Bradhurst Ave, Hawthorne, NY (outpatient on Tuesday and Wednesday)

Objectives: By the end of this rotation, students will be able to:

- Discuss the etiology of different pain syndromes
- Perform a thorough history and physical examination for patients being evaluated for pain in both the inpatient and outpatient setting.
- Discuss the pharmacology of NSAIDs, non-narcotic analgesics, and opiates and their appropriate use in pain management
- Distinguish between dependence, tolerance, and addiction
- Discuss the indications, contraindications, and side effects of interventional pain procedures
- Identify relevant anatomy pertinent to interventional pain procedures
- Utilize a multimodal treatment approach in managing pain
- Recognize the impact of pain on a patient’s quality of life
- Appreciate the role of the physician in addressing and alleviating pain

Methods of evaluation:

Students will be evaluated in the following competency domains: medical knowledge; patient care; interpersonal and communication skills; continuous personal learning and improvement; self-directed learning related to his/her initiative and motivation to learn and progress in his/her knowledge through the rotation.; practicing in a complex healthcare system; teamwork; and professionalism. Students will also be expected to present one topic/ short case/article presentation related to any issue in pain medicine.
Max enrollment: 2 students/block

Preferred months: Open year round

- Site(s): Westchester Medical Center
  Elective Code: ANSM 5103-WMCRM
SECTION: CELL BIOLOGY & ANATOMY

DEPARTMENT: Cell Biology and Anatomy

Name of Elective: CLINICAL GROSS ANATOMY **Open to NYMC students only

Course Description: Detailed dissections of anatomic region(s) selected by the student are correlated with researched information of clinical significance. Fourth year students will participate in laboratory teaching of first year students, including presentation of their prepared prosections, correlating their subject with X-ray and other diagnostic imaging modalities.

Goals & Objectives: By the end of this elective the student should be able to

1. Demonstrate a refined knowledge of anatomy.
2. Correlate basic and clinical knowledge of the area studied.
3. Develop communication, presentation and teaching skills.

Methods of Evaluation: Students will be evaluated on the following competency domains: medical knowledge and clinical skills based on the quality of dissection and interpersonal/communication skills based upon the effectiveness of presentations and demonstrations.

Preferred Dates: August, September & October

Site:
- New York Medical College, Valhalla, NY 10595
Elective Code: ANTM 5103-NYMCM
**SECTION: DERMATOLOGY**

**Department:** Dermatology

**Name of Elective:** DERMATOLOGY

**Course Description:** The Dermatology elective exposes students to a wide range of pathology in an outstanding clinical and academic environment. Students will be exposed to the assessment and management of both adult and pediatric patients who present with dermatologic complaints in both the inpatient and outpatient settings. Additional educational experiences include weekly grand rounds, basic sciences and journal clubs, dermatopathology teaching conferences, and clinical research. Through these experiences, students will have a better appreciation of the field of dermatology as a career option for residency training.

**Goals & Objectives:** By the end of this elective students should be able to:
1. Identify and diagnose common dermatologic disorders
2. Demonstrate the ability to manage common dermatologic disorders
3. Understand the indications of common therapeutic modalities used in dermatology.

**Method of evaluation:** Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

**Preferred Dates:** Available August through June

**Site/s:**
- Metropolitan Hospital, NY, NY 10029
  **Elective Code:** DERM 5101-METHM
SECTION: EMERGENCY MEDICINE

Department: Center for Disaster Medicine & Office of Undergraduate Medical Education

Name of Elective: DISASTER AND PREHOSPITAL MEDICINE **Open to NYMC Students only

Course Description: The disaster and prehospital medicine elective is geared to the student interested in emergency medicine and/or the care and management of patients after a disaster scenario. This is a rigorous clinical elective with sessions at the Clinical Skills and Disaster Medicine Training Center and prehospital clinical rotations at St. Joseph’s in Paterson, NJ. Students will be responsible for participating in the following activities:

1. Students will complete courses in ACLS, PALS and Prehospital Trauma Life Support during this elective prior to beginning clinical rotations.
2. Students will participate in clinical skills trainings in some of the following areas throughout the elective on selected clinical skills days, which will include practice of skills on task trainers and clinical simulators: intravenous/interosseous and other methods of vascular access; endotracheal intubation and advanced airway management; surgical airways; emergency thoracentesis; suturing; vaccine and parenteral medication administration; advanced patient assessment techniques including sensory deprivation and sensory overload scenarios.
3. Students will participate in disaster medicine grand rounds
4. Students will rotate to prehospital medicine clinical sites to observe the field application of emergency medicine with paramedics.

References and resources will be provided to students at the beginning of the elective and posted to the curriculum management system.

Goals & Objectives:

Goals: The goals of this elective are to:

1. To introduce the medical student to the practice of emergency medicine in austere environments, specifically in the disaster and prehospital setting.
2. To orient the medical student to the adaptation of traditional clinical assessment, diagnosis and management of acute illness and injury in the out-of-hospital environment and with limited resources.

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

1. Discuss the application of clinical patient assessment and management of acute and chronic illness and injury in an austere, out-of-hospital environment.
2. Describe the modification of standard patient assessment and diagnosis in the setting with limited diagnostic testing and reliance on clinical assessment.
3. Explore ethical considerations on the triage and treatment of patients affected by disasters and public health emergencies.
4. Observe the clinical assessment and treatment of patients in the prehospital environment by emergency medical services personnel and the transition of care to hospital-based physicians and nursing staff.
5. Demonstrate a variety of clinical skills within the laboratory environment that would be applicable to certain disaster medicine scenarios.
6. Demonstrate clinical assessment and treatment of patients with syndromes of illness evolving from exposure to disaster conditions using high and low fidelity simulation.

**Methods of evaluation:** Students will be evaluated in the following ways:

1. Students will be given formal post-course assessments of their standardized courses (ACLS/PALS/PHTLS/ITLS)
2. Students will be evaluated on their competency performing clinical skills during clinical skills labs by Center faculty
3. Students will be evaluated by prehospital clinical preceptors who will complete post-shift evaluations of the students and debrief students following each 12-hour clinical shift.
4. Students will receive an overall assessment by the elective director at the completion of the elective based upon the student’s demonstrated medical knowledge, technical skills, communication skills, and professionalism.

**Preferred Dates:** February; Minimum 4, Maximum 12

**Site/s:**
- NYMC-Clinical Skills Center and St. Joseph’s Regional Medical Center in Paterson, NJ

**Elective Code:** EMGM 5108-NYCMC
SECTION: EMERGENCY MEDICINE

Department: Emergency Medicine

Name of Elective: EMERGENCY MEDICINE **Open to NYMC Students ONLY

Course Description: Students will have the opportunity to gain experience in the initial evaluation, stabilization and management of patients presenting to the emergency department for medical, surgical, and/ or psychiatric complaints. These include cardiac arrest, bronchial asthma, pulmonary edema, hypertensive emergencies, blunt and penetrating trauma, altered mental status, and wound care. Basic technical skills, including would repair, casting and splinting will also be reviewed.

Goals & Objectives:

Goals: The goals of the emergency medicine rotation is familiarize students with the evaluation and initial management of common emergencies, patient triage, and strengthen the student’s ability to take a focused history and physical examination.

Objectives: By the end of this elective students should be able to:

1. Demonstrate the ability to evaluate the patient with an undifferentiated chief complaint by performing a complaint-directed H&PE
2. Develop a case specific differential diagnosis and management plan
3. Present patients in a clear and concise fashion
4. Demonstrating an understanding of the use and interpretation of commonly ordered diagnostic studies
5. Demonstrate proficiency with basic procedural skills

Method of evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Throughout academic year

Site(s):

- Brookdale University Hospital, New York, NY 11212
  Elective Code: EMGM 5101-BROKM
- Good Samaritan Hospital
  Elective Code: EMGM 5101-GOODM
- Metropolitan Hospital Center, New York, NY 10029
  Elective Code: EMGM 5101-METHM
- St. Joseph’s Regional Medical Center, Paterson, NJ 07503
  Elective Code: EMGM 5101-STJOM
- Westchester Medical Center, Valhalla, NY 10595
  Elective Code: EMGM 5101-WMCRM
SECTION: FAMILY AND COMMUNITY MEDICINE

DEPARTMENT: Family & Community Medicine

Name of Elective: Rural Medicine for America’s Veterans **Open to NYMC Students ONLY

COURSE DESCRIPTION: The goal of this elective rotation is to expose students to the unique experience of providing medical care in rural West Virginia. Students will be working mainly in the primary care clinics, and will have an opportunity to participate in the VAMC’s Mental Health Intensive Case Management program. Students will provide medical, psychosocial and preventive health care services in an ambulatory setting. Students will work in a Patient Aligned Care Team (PACT), which consists of a physician/midlevel provider, RN, LPN, medical support assistant, social worker and clinical pharmacist. Students will have an opportunity to participate in the Tele-Health program for specialty consultation.

Goals & Objectives:
Students participating in the Rural Medicine elective will be able to:
1. Appreciate the delivery of healthcare and unique aspects of providing care in a rural setting.
2. Provide direct care to patients in an interdisciplinary fashion with the Patient Aligned Care Team.
3. Effectively work with consultants remotely to provide care for rural patients
4. Understand the critical aspects of care/management for Veterans
5. Experience a home-based delivery system for mental health services.

Method of evaluation: Students will be evaluated on the following competency domains
- Medical knowledge
- Interpersonal and communication skills: required presentations
- Self-directed learning related to his/her initiative and motivation to learn and progress in his/her knowledge through the rotation.
- Teamwork: ability to work effectively with all members of the team
- Professionalism

Elective time: Four weeks
Preferred Dates: Throughout the academic year

Site/s:
- Beckley VA Medical Center, West Virginia
  200 Veterans Avenue
  Beckley, WV 25801
  Phone: (304) 255-2121
  Toll Free: (877) 902-5142
  Fax: (304) 255-2431
  Elective Code: FMDM 5104-BKVAM
SECTION: FAMILY AND COMMUNITY MEDICINE

Department: Family & Community Medicine

Name of Elective: COMPLEMENTARY & ALTERNATIVE MEDICINE **Open to NYMC students only

Course Description: During this elective, students will be introduced to commonly used complementary and alternative therapies using a combination of in-person didactic sessions and clinical immersion with physicians who practice complementary and alternative medicine (CAM). Students will attend weekly lectures and discussion groups as well as have the opportunity to visit several physician offices and clinics weekly for clinical observation.

Goals & Objectives: By the end of this elective students should be able to:

1. Describe the Medical Science behind commonly used CAM Therapies
2. Develop a model in which to evaluate the need for CAM Therapies
3. Develop a model in which to evaluate the basis for referral for CAM Therapies
4. Directly experience the effects of several commonly used CAM Therapies

Method of evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Sites:
- New York Medical College, Valhalla, NY 10595

***Dates offered: TBD

Elective Code: FMDM 5102-NYMCM
SECTION: FAMILY AND COMMUNITY MEDICINE

Department: Family & Community Medicine

Elective: FAMILY MEDICINE SUBINTERNSHIP

Course Description: The goal of this elective rotation is to expose students to the unique experience available in the NYMC Phelps Family Medicine Residency Program. Students will be integrated into the regular work schedule of the residency program, rotating two weeks in the ambulatory health center and two weeks on the inpatient service. The inpatient service rotation will include night call. Students are expected to perform a comprehensive history and physical examination on each assigned patient, write daily notes and present new admissions during morning report. Under direct supervision, students will perform, appropriate patient procedures. In the ambulatory setting, students will independently evaluate patients and record notes for presentation to the attending physician. Students will participate in weekly residency conferences. Interested students can also participate in maternity care provided by Family Medicine physicians.

Goals & Objectives: Students participating in the NYMC Phelps Family Medicine elective will be able to:

1. Evaluate patients for presentation to attending physicians at Sleepy Hollow Open Door Health Center, a Federally Qualified Community Health Center
2. Provide direct care to patients on the Family Medicine Inpatient Service in our community hospital
3. Identify the components of a functioning patient centered medical home;
4. Understand the critical aspects of care/management for underserved patients

Method of evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Throughout academic year

Site(s):
- Open Door Health Center at Phelps Memorial Hospital, NY 10591

Elective Code: FMDM 5106-PHELM
SECTION: MEDICINE

Department: Medicine

Elective: CRITICAL CARE UNIT **Open to NYMC students only

Course Description: The critical care unit (CCU) rotation provides an excellent training opportunity for students to acquire experience in the diagnosis and management of critically ill patients with cardiovascular diseases. Students are exposed to a broad range of problems including acute coronary syndromes, congestive heart failure, arrhythmias, valvular heart disease, endocarditis, hypertensive crisis, cardiomyopathy, pericarditis, cor pulmonale, aortic dissection, aortic aneurysm and cardiac tamponade. The resident will also be exposed to a variety of invasive and noninvasive cardiac testing. The student will be working under close supervision of the Cardiology attending and fellow.

Goals & Objectives: By the end of this rotation, the student will be able to:

1. Perform a comprehensive history and physical examination appropriate to the critical care setting
2. Formulate and carry out effective management plans
3. Clearly and succinctly document patient management in the medical record
4. Accurately interpret laboratory, ECG, chest X-ray, swan ganz data
5. Learn current cardiology literature and standard of care guidelines
6. Communicate accurately and compassionately with patients and their families
7. Professionally interact with entire health care team
8. Treat all patients, health care providers & hospital employees with respect and integrity
9. Outline the indications and criteria for admission to and transfer from the CCU
10. Understand the principles of effective communication between patients, multiple health professionals, and families when managing patients in a complex, multidisciplinary environment.

Methods of Evaluation: Evaluation will be completed based upon student's active participation and demonstrated medical knowledge, clinical skills, communication skills, and professionalism.

Preferred Dates: Available during the academic year

Site(s):
- St. Joseph’s Regional Medical Center, Paterson, NJ 07503
  Elective Code: CRDM 5110-STJOM
- Westchester Medical Center, Valhalla, NY 10595
  Elective Code: CRDM 5110-WMCRM
SECTION: MEDICINE

Department: Medicine

Name of Elective: ENDOCRINOLOGY AND METABOLISM

Course Description: The endocrinology service provides care for patients with a wide variety of disorders including diabetes mellitus, osteoporosis, disorders of the pituitary, thyroid, and adrenal, disorders of calcium metabolism, and disorders of male and female reproduction. During this elective students will gain knowledge of basic endocrinology and develop skills in the evaluation and treatment of these disorders. In addition to participating in a busy inpatient consultation service and outpatient clinics, students attend a weekly lecture series and participate in case conferences and journal club.

Goals & Objectives:
Goals: The goal of this elective is to provide students with an overview of the clinical practice of the subspecialty of endocrinology.

Objectives: By the end of this elective the student should be able to demonstrate an understanding of the diagnosis, pathophysiology, and management of the common conditions encountered in the field endocrinology.

Methods of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, clinical skills, professionalism, and interpersonal/communication skills based upon the assessment of faculty and fellows in the department.

Preferred Dates: Available throughout the academic year

Sites:

- Westchester Medical Center, Valhalla, NY 10595

Elective Code: ENDM 5102-WMCRM
SECTION: MEDICINE

Department: Medicine

Name of Elective: GASTROENTEROLOGY/HEPATOBIILIARY DISEASE

Course Description: Students will be assigned to the Gastroenterology Service where they will participate fully in the service activities including: work rounds and consultations supervised by GI fellows, daily teaching rounds with the GI Attending on service, weekly clinical conferences with in-depth presentation of difficult patient problems, weekly GI seminars with presentations on pathophysiology of the GI tract and liver, observation of GI endoscopic procedures, and additional conferences including Journal Club, radiology review and liver tumor board.

Goals & Objectives: By the end of this elective the student should be able to:
1. Recognize common inpatient and outpatient gastrointestinal problems
2. Demonstrate knowledge of the principles of the diagnosis and treatment of gastrointestinal and liver disease in both the inpatient and outpatient settings
3. Perform a focused history and physical related to the gastrointestinal system
4. Identify major diagnostic and therapeutic procedures that are used in the field of Gastroenterology including: upper endoscopy, colonoscopy, ERCP, etc. and demonstrate an understanding of the indications, risks and benefits of each procedure

Methods of Evaluation: Students are evaluated by the full-time faculty of the Division of Gastroenterology, in conjunction with the Fellows in Gastroenterology based on his/her active participation in teaching rounds, case presentations, and demonstrated professionalism during the rotation.

Preferred Dates: Available during academic year

Site(s):
- St. Joseph’s Regional Medical Center Paterson, NJ 07503\n  Elective Code: GSTM 5102-STJOM
- Westchester Medical Center, Valhalla, NY 10595\n  Elective Code: GSTM 5102-WMCRM
SECTION: MEDICINE

Department: Medicine

Name of Elective: HEMATOLOGY

Course Description: During this elective students will be assigned to the Hematology Service at Westchester Medical Center where they will participate in the activities of the service. Their primary goal will be educational. They will be assigned direct responsibility for following patients assigned to the Hematology Service under the supervision of the Hematology Fellow and an attending Hematologist. They will be provided with computer resources for searching literature on their cases and for accessing the American Society of Hematology slide bank. They will also review pathology slides with an attending Hematologist and Hematopathologist. Students will also attend one hematology clinic session per week and take part in the weekly chemotherapy planning conference. In addition, they will also have an opportunity to perform bone marrow aspirations and biopsies and participate in their interpretation.

Goals & Objectives: By the end of this elective the student should be able to:

1. Demonstrate an understanding of the clinical approach to patients with hematologic disorders.
2. Recognize the components of the evaluation and management of acute and chronic disorders of bleeding and thrombosis, various cytopenias and, assessment of hematologic neoplasias.
3. Acquire skills that include the basic interpretation of peripheral blood and bone marrow smears, and an array of specialized hematologic techniques.

Methods of Evaluation: Students are evaluated by the full-time faculty of the Division based on his/her demonstrated medical knowledge, clinical skills, professionalism, and interpersonal/communication skills.

Preferred Dates: Available during academic year

Site(s):

- Westchester Medical Center Valhalla, NY 10595

Elective Code: HEMM 5101-WMCRM
SECTION: MEDICINE

Department: Medicine  
Name of Elective: HEMATOLOGY/ONCOLOGY

Course Description: During this elective the student will gain clinical exposure to hematology/oncology in the inpatient and outpatient (clinic) settings. They will be engaged in the team-based management of patients in rounds and develop a deeper understanding of the most common clinical entities managed in hematology and oncology.

Goals & Objectives: by the end of this elective the student should be able to
1. Demonstrate an increased fund of knowledge about the diagnosis and management of diseases of hematologic and oncologic disorders, including anemias, coagulation disorders, and common malignancies.
2. Recognize abnormal findings on physical examination associated with hematologic and oncologic disorders.
3. Identify the characteristic elements on basic peripheral smears and bone marrow aspirates and understand the component of a CBC.
4. Become familiar with relevant concepts regarding palliative care in patients with hematologic and oncologic disorders.
5. Develop an approach the patient presenting with anemia.
6. Recognize the toxicities of commonly used chemotherapeutic agents.

Methods of Evaluation: Students are evaluated by the full-time faculty of the Division based on his/ her demonstrated medical knowledge, clinical skills, professionalism, and interpersonal/communication skills.

Preferred Dates: Available during the academic year

Sites:
- St. Joseph’s Regional Medical Center, Paterson, NJ 07503
  Elective Code: ONCM 5102-STJOM
SECTION: MEDICINE

Department: Medicine

Name of Elective: INFECTIOUS DISEASE

Course Description: The student will obtain firsthand knowledge and experience in the field of infectious disease through the assessment and management of a variety of acute and chronic infectious diseases in a variety of clinical settings including the hospital consultation service and outpatient clinics. The spectrum of clinical material discussed will include appropriate selection and use of antimicrobial agents for the treatment of common pathogens (Gram positive bacteria, Gram negative bacteria and Fungi), diagnosis and management of bacterial endocarditis, tuberculosis, osteomyelitis, skin and soft tissue infections, post-operative infections, healthcare associated infections, HIV infection, influenza and other viral illnesses, parasitic and fungal infections. The student will work with attending staff to assess and discuss the management of patients. Students will also be expected to present cases and participate in teaching conferences and journal clubs during the elective.

Goals & Objectives: During this elective the student should be able to:

1. Demonstrate the ability to obtain an appropriate history and physical examination of patients with complaints involving infection
2. Demonstrate the use of laboratory and other diagnostic resources in the diagnosis and management of infectious diseases
3. Demonstrate an ability to manage common infectious diseases, including the basic principles of therapy with regard to selection and monitoring of antibiotics and antiviral agents
4. Demonstrate knowledge pertaining to the selection of antimicrobial and use of antimicrobial agents for the treatment of common pathogens.

Method of evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Available throughout the academic year

Site(s):

- Westchester Medical Center Valhalla, NY 10595
  Elective Code: INFM 5101-WMCRM
- Metropolitan Hospital Center, NY, NY 10029
  Elective Code: INFM 5101-METHM
- St. Joseph’s Regional Medical Center, Paterson, NJ 07503
  Elective Code: INFM 5101-STJOM
SECTION: MEDICINE

Department: Medicine

Name of Elective: MEDICAL INTENSIVE CARE UNIT (MICU) **Open to NYMC students only

Course Description: This elective is designed to enhance the student's knowledge, experience and skills in the care of the critically ill patient. The student will gain an understanding of the unique aspects of critical care medicine provided in the ICU and provide an opportunity for learning through active participation in patient care.

Goals & Objectives: By the end of this rotation, the student will be able to:
1. Outline the indications and criteria for admission to and transfer from the intensive care unit
2. Develop the required skills necessary to evaluate and treat critically ill patients
3. Gain a comprehensive introduction to the multi-specialty approach to critical care medicine
4. Gain exposure to procedural skills required of a critical care physician
5. Understand the principles of effective communication between patients, multiple health professionals, and families when managing patients in a complex, multi-disciplinary environment.

Methods of Evaluation: Evaluation will be completed based upon student's active participation and demonstrated medical knowledge, clinical skills, communication skills, and professionalism.

Preferred Dates: Available during the academic year

Sites:
- Brookdale University Hospital, New York, NY 11212
  Elective Code: MEDM 5109-BROKM
- Bronx-Lebanon Hospital, Bronx, NY 10457
  Elective Code: MEDM 5109-BRXLM
- Greenwich Hospital, Greenwich, CT 06830
  Elective Code: MEDM 5109-GRNHM
- Metropolitan Hospital Center, NY, NY 10029
  Elective Code: MEDM 5109-METHM
- St. Joseph’s Regional Medical Center, Paterson, NJ 07503
  Elective Code: MEDM 5109-STJOM
- Westchester Medical Center, Valhalla, NY 10595
  Elective Code: MEDM 5109-WMCRM
SECTION: MEDICINE

Department: Medicine

Elective: MEDICINE SUBINTERNSHIP **Open to NYMC Students ONLY

Course Description: This clinical experience will provide you an opportunity to apply your acquired medical knowledge to the direct care of your patients and prepare you for internship training.

Goals: Taking on primary responsibility for the patient.

1. Focusing histories, physicals, and oral and written communication appropriately.
2. Sharing information effectively with a patient and family.
3. Prioritizing and organizing work effectively.
4. Anticipating what a patient will need during the course of hospitalization (i.e. when they need to be re-examined, when a lab needs to be repeated, when additional therapy is necessary, when additional history needs to be obtained, discharge criteria) and communicating this information effectively in hand-overs.
5. Re-evaluating a patient when you take on their care (i.e. the assessment and plan, as well as the clinical status) and looking further when the clinical picture does not fit.
6. Continuing to think about and re-assess the patient during the course of the day.
7. Coping with uncertainty in patient care issues (i.e. knowing what you know and what you don’t know, accessing best resources, and knowing when and how to get help).
8. Functioning as a "team player" with residents, attendings, nurses, ancillary staff and all others involved in the care of the patient.
9. Coordinating the care of your patient during hospitalization and in planning for discharge.

Requirements:
- You are required to complete four full weeks on an inpatient hospital unit under the supervision of an attending in the medical unit.
- You are expected to be an active member of the floor team, with direct patient care responsibilities. This includes rounding on your patients daily, presenting them on team rounds, writing notes, performing procedures as appropriate and participating in other patient care or follow up.
- You are expected to take at least one call per week at the discretion of your unit supervisor. A patient log should be maintained within LCMS+ and reviewed weekly with your course/site director.
- In the beginning of your rotation, you will complete the self-assessment/ILP and review it with your site director to focus your learning goals for the month.

Method of Evaluation: Students will be assessed in the following domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism. A final grade for this clerkship will be determined by your final clinical evaluation and completion of the reflection. All required evaluations and assignments must be completed before final grades will be made available.
Site/s:

- Brookdale University Hospital, New York, NY 11212
  **Elective Code:** MEDM 5101-BROKM
- Lenox Hill Hospital, NY, NY 10075
  **Elective Code:** MEDM 5101-LENXM
- Metropolitan Hospital Center, NY, NY 10029
  **Elective Code:** MEDM 5101-METHM
- St. Joseph’s Regional Medical Center, Paterson, NJ 07503
  **Elective Code:** MEDM 5101-STJOM
SECTION: MEDICINE

Department: Medicine

Name of Elective: NEPHROLOGY

Course Description: This elective affords a broad exposure to all aspects of clinical nephrology and hypertension (water and electrolyte problems, pH problems, acute and chronic renal failure and dialysis, and renal disease including glomerulonephritis). Specific patients are assigned to the students and their cases are reviewed during daily Renal Rounds with the Attending. Students also participate in the weekly Renal Clinics, weekly topic conferences, and weekly Renal Section conferences.

Goals & Objectives:
Goals: The goals of this elective are to familiarize the student with the basic principles involved in recognition, diagnosis, and treatment of acute and chronic renal disease.

Objectives: By the end of this elective students should be able to:
1. Perform a proper history and clinical exam with special attention to renal-related issues
2. Diagnose and manage acute and chronic medical problems in patients with renal disease and renal failure
3. Understand, analyze and interpret the pathophysiology of renal-related issues, acid base and electrolyte problems.

Method of Evaluation: Students will be assessed in the following domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Throughout academic year

Site/s:
- Metropolitan Hospital Center, NY, NY 10029
  Elective Code: NEPM 5101-METHM
- St. Joseph’s Regional Medical Center, Paterson, NJ 07503
  Elective Code: NEPM 5101-STJOM
  (Needs prior approval request)
- Westchester Medical Center, Valhalla, NY 10595
  Elective Code: NEPM 5101-WMCRM
SECTION: MEDICINE

Department: Medicine

Name of Elective: PALLIATIVE CARE **Open to NYMC Students ONLY

Course Description: During this elective, the student will work with an interprofessional team consisting of attending physicians, nurses, cancer care technicians, social workers, and pastoral caregivers to learn about the philosophy of palliative care and its practice. Students will gain experience in the assessment and management of patient’s with palliative care needs including the management of pain and psychological disturbances. They will also explore some of the ethical issues involved in palliative care.

Goals & Objectives:
Goals: The goal of this elective is to provide students with a broad exposure to the field of palliative care including the principles of end of life care, chronic disease management, pain and symptom management interdisciplinary patient care, and communication skills about delivery of bad news to patients and families.

Objectives: By the end of this elective, the student should be able to:
1. Understand the most common and troublesome symptoms experienced by the patient with advanced cancer.
2. Understand the use of medications for pain management and psychological disturbances, such as depression, delirium and agitation.
3. Identify issues related to abandonment, ethical dilemmas, futility of care.
4. Understand the application of advance directives.
5. Understand the overall emotional support of these patients.
6. Develop a better understanding of loss, grief and bereavement.
7. Understand the values and necessity of working with other disciplines

Method of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: June, July, August, November, January, February, March

Site/s:
- Metropolitan Hospital Center, NY, NY 10029

Elective Code: PALM 5101-METHM
SECTION: MEDICINE

Department: Medicine

Name of Elective: PULMONARY

Course Description: The elective is intended to familiarize students in all aspects of pulmonary-critical care medicine, including respiratory intensive care, chronic obstruction pulmonary disease, tuberculosis, carcinoma of the lung, and interstitial disease. Students will attend case conferences, weekly clinics where ambulatory pulmonary problems, including long term follow-up of cases are seen. Students will also be exposed to pulmonary function testing and interpretation, and ventilator care. Special emphasis is given in interpretation and correlation of chest x-rays with clinical problems. In addition, students will assist in endoscopic examinations where direct correlation of gross pathology and microscopic sampling with clinical diagnosis will be made.

Goals & Objectives:

Goals: The goals of this elective are to provide students with a basic understanding of pulmonary medicine, with an approach based on clinical symptomatology and diagnosis related to pathophysiology of disease. The course emphasizes the application of theory, pathophysiology and interpretation of x-ray and pulmonary function data to clinical pulmonary problems.

Objectives: By the end of this elective the student will be able to apply rational principles of treatment to patients with both acute and chronic pulmonary problems.

Method of Evaluation: Students will be evaluated by the faculty on their daily activities including case presentations, delivery of prepared topics and overall performance. The evaluation will cover the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Throughout academic year

Site/s:

- Metropolitan Hospital Center, NY, NY 10029
  Elective Code: PULM 5101-METHM
- Westchester Medical Center Valhalla, New York 10595
  Elective Code: PULM 5101-WMCRM
- St. Joseph’s Regional Medical Center, Paterson, NJ 07503
  Elective Code: PULM 5101-STJOM
SECTION: MEDICINE

Department: Medicine

Name of Elective: RHEUMATOLOGY

Course Description: Students will see patients of all ages with a wide variety of arthritic and connective tissue diseases. Rheumatoid arthritis, systemic lupus erythematosus, and Lyme arthritis are just some of the diseases covered. Patients will be evaluated in a variety of settings including hospital consultations, clinics, and faculty office practice. Students will participate in x-ray rounds, clinical conferences and journal clubs, and will acquire an understanding of immunological testing in rheumatic diseases.

Students will increasingly understand that rheumatology is not only a resource for those interested in Internal Medicine, but instructive to all medical and surgical specialties.

Goals & Objectives:
Goals: The goal of this elective is to familiarize the student with the clinical approach to a spectrum of rheumatic disease problems, and the scientific and clinical foundation of rheumatology.

Objectives: By the end of this elective the student will be able to demonstrate the ability to diagnose and manage patients with diseases of the bones and joints.

Method of Evaluation: Students will be evaluated by the faculty on their daily activities including case presentations, delivery of prepared topics and overall performance. The domains assessed will include fund of knowledge, interpersonal/communication skills, and demonstrated professionalism.

Preferred Dates: Throughout academic year

Site/s:
- Westchester Medical Center Valhalla, New York 10595

Elective Code: RHUM 5101-WMCRM
SECTION: NEUROLOGY

Name of Department: Neurology

Elective: NEUROVASCULAR DISEASE

Course Description: The student will be assigned to the Neurovascular Fellow and/or resident on service with whom he or she will make daily rounds on patients with cerebrovascular diseases on the Neurology in-patient and consultation services. The clinical aspects of cerebrovascular disease will be correlated with other studies when possible such as: cervical duplex, transcranial ultrasound, CT scans, MRI and 4-vessel angiography. The student will independently examine patients and formulate a diagnostic impression and plan of management and will be closely supervised by the resident/fellow. The cases will be reviewed and discussed in detail with the attending neurologist. The student will be allowed to attend various departmental conferences and teaching sessions. Special emphasis will be placed on reading and the review of the literature pertinent to cerebrovascular disease. The opportunity to engage in clinical research may be available.

Goals & Objectives: By the end of this elective the student should be able to demonstrate skills in obtaining histories, examining patients, and formulating differential diagnoses and plans for evaluation of patients with cerebrovascular disease.

Methods of Evaluation: The student will be evaluated by the faculty on their interpersonal/communication skills, demonstrated patient care, and professionalism.

Preferred Dates: Available September through June

Site(s):

- Westchester Medical Center, Valhalla, NY 10595

Elective Code: NRMOM 5104-WMCRM
SECTIION: OBSTETRICS AND GYNECOLOGY

Department: Obstetrics & Gynecology

Name of Elective: AMBULATORY OBSTETRICS AND GYNECOLOGY

Course Description: The elective in ambulatory Obstetrics & Gynecology will involve active participation by students in the evaluation and management of patients being evaluated in the Family Health Center for routine obstetrical and gynecologic issues. Students will work with faculty and resident staff and learn to function as a member of an ambulatory care team and develop a broad range of experience in ambulatory OB/GYN setting. Students will also have the opportunity to attend OB/GYN Grand Rounds in the hospital.

Goals and Objectives: By the end of this elective students will be able to:
1. Demonstrate the skills of initial assessment and management of patients presenting to an ambulatory OB/GYN practice.
2. Demonstrate proficiency in performing a pelvic exam, breast exams, and pap smear

Method of evaluation: Students will be assessed by faculty based upon their demonstrated clinical skills, interpersonal/communication skills, medical knowledge and professionalism.

Site/s
- Family Health Center, 21 Market Street, Paterson NJ and St. Joseph's Regional Medical Center, Paterson, NJ 07503

Elective Code: OBGM 5116-STJOM
SECTION: OBSTETRICS AND GYNECOLOGY

Department: Obstetrics and Gynecology

Name of Elective: FAMILY PLANNING

Course Description: The elective program in family planning is designed to give the student a broad educational experience in its various aspects, i.e., contraception, population control, and sexually transmitted diseases. Students will participate in service, patient care and patient education.

Goals & Objectives:
Goals: The goal of this elective is to introduce the student to the principles and techniques of family planning.

Objectives: By the end of this elective the student should be able to:
1. List the principles and techniques of contraception.
2. Demonstrate the ability to assess a patient presenting for consultation regarding family planning.
3. Recognize the epidemiology, screening, risk factors and management of patients with sexually transmitted diseases.
4. Recognize early signs and symptoms of gynecologic complications which may affect the patient's health.

Methods of Evaluation: Students will be assessed by faculty based upon their demonstrated clinical skills, interpersonal/communication skills, medical knowledge and professionalism.

Preferred Dates: September - June

Site/s:
- Metropolitan Hospital Center, NY, NY 10029

Elective Code: OBGM 5106-METHM
SECTION: OBSTETRICS AND GYNECOLOGY

Department: Obstetrics and Gynecology

Name of Elective: MATERNAL/FETAL MEDICINE

Course Description: The elective in perinatology and maternal and child health will involve active participation by students in the management of high risk pregnancy, both in clinics and on the wards. Exposure will consist of the various methods of antepartum and intrapartum evaluation used on modern perinatal services, e.g., endocrine and metabolic evaluation of gestation, fetal monitoring and scalp sampling. There will be exposure to a large variety of medical complications of pregnancy managed by the obstetrical service in liaison with the medical service. Students are expected to spend time on the neonatal ICU service as a complement to the perinatal rotation. Here students will observe intensive monitoring of the sick neonate.

Goals & Objectives: By the end of this elective the student should be able to:

1. Demonstrate the ability to assess and manage a pregnant patient presenting with an acute medical condition or a “high-risk” pregnancy
2. List the methods of antepartum and intrapartum evaluation of patient, including their indications, contraindications and risks
3. Demonstrate an understanding of the major treatment strategies for common conditions encountered by maternal-fetal medicine specialists

Method of Evaluation: Students will be assessed by faculty based upon their demonstrated clinical skills, interpersonal/communication skills, medical knowledge and professionalism.

Preferred Dates: July - December, March - June

Site/s:
- Metropolitan Hospital Center, NY, NY 10029

Elective Code: OBGM 5103-METHM
SECTION: OBSTETRICS AND GYNECOLOGY

Department: Obstetrics & Gynecology

Name of Elective: MATERNAL FETAL MEDICINE

Course Description: The elective is structured to enhance the knowledge of the students who desire to learn more about the medical/surgical/gynecological complications in pregnancy, their effects on the outcome of pregnancy and pregnancy alteration to the course of the diseases encountered. During the course of the elective the students will familiarize themselves with techniques of fetal surveillance both electronic fetal monitoring and ultrasound methods in diagnosing fetal anomalies and genetic disorders.

Goals and Objectives: By the end of this elective students will be able to:
1. Demonstrate the ability to conducting an interview with a high risk pregnant patient followed by a comprehensive, yet targeted physical examination.
2. Demonstrate the ability to formulate a management plan of such medical/surgical congenital anomalies findings.
3. Demonstrate familiarity with the complexity of perinatal care of patients with multiple co-morbid medical conditions.

Method of evaluation: Students will be assessed by faculty based upon their demonstrated clinical skills, interpersonal/communication skills, medical knowledge and professionalism.

Site/s:
- St. Joseph's Regional Medical Center, 703 Main Street, Paterson, NJ 07503

Elective Code: OBGM 5103-STJOM
SECTION: OBSTETRICS AND GYNECOLOGY

Department: Obstetrics & Gynecology

Name of Elective: SUB-INTERNSHIP IN OBSTETRICS AND GYNECOLOGY **Open to NYMC students only

Course Description: The elective is an immersion experience in taking first-line responsibility for the care of patients on the obstetrics and gynecology inpatient services. The student will manage two to four patients at a time under the direct supervision of a senior resident and faculty member.

Goals and Objectives:
Goals: The goal of the sub-internship in Obstetrics & Gynecology is to provide students with a concentrated, in depth exposure to the evaluation and management of Obstetrics & Gynecology patients in order to expand his/ her core knowledge and skills.

Objectives: By the end of this elective, the student should be able to:
1. Set priorities in the diagnosis and management (under supervision) of hospitalized patients on the Obstetrics & Gynecology service with common and complex problems that require management in hospital.
2. Communicate effectively with patients, supervisors, and nursing staff regarding patient care
3. Demonstrate facility in locating primary care sources to enhance understanding of patients' problems.
4. Demonstrate a sound knowledge base and sound judgment in the management of patients hospitalized on the Obstetrics & Gynecology service.

Method of evaluation: Students will be evaluated by faculty on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Throughout the academic year

Site(s)

- Metropolitan Hospital Center, NY, NY 10029

Elective Code: OBGM 5112-METHM
SECTION: OPHTHALMOLOGY

Department: Ophthalmology

Name of Elective: OPHTHALMOLOGY

Course Description: Following instruction in the use of the specialized ophthalmic equipment employed in the examination of patients, the extern may be permitted to examine patients under general supervision in the clinic. Students attend clinics in the morning and afternoon. The exposure is predominantly clinical. Students work-up both clinic patients and inpatients and are supervised by attendings and residents. They participate in all teaching sessions, rounds and conferences. Operating room exposure is commensurate with the student's ability and interest.

Upon completion of this rotation, a competency is achieved in the examination and diagnosis of basic ophthalmologic problems, as well as familiarity with the equipment. Instruction will be personalized.

Goals & Objectives: By the end of this elective the student should be able to:
1. Appreciate the breath of practice of the field of ophthalmology
2. Demonstrate the ability to perform a focused history and examination of a patient presenting with a complaint of the eye/ vision.
3. Demonstrate an understanding of the most common clinical conditions that present to a physician for evaluation and know when to refer these patients to an ophthalmologist.

Methods of Evaluation: Students will be evaluated by attending physicians on the basis of their demonstrated clinical skills, professionalism, interpersonal/ communication skills and medical knowledge.

Site/s:
- Metropolitan Hospital, NY, NY
  Elective Code: OPTM 5101-METHM
  Preferred Dates: Available mid-August through December 31, February 1 through May 31
- St. Joseph's Regional Medical Center Paterson, NJ 07503
  Elective Code: OPTM 5101-STJOM
  Preferred Dates: Available throughout the academic year except July
- Westchester Medical Center, Valhalla, 10595
  Elective Code: OPTM 5101-WMCRM
  Preferred Dates: Available mid-August through December 31, February 1 through May 31
SECTION: ORTHOPEDICS

Department: Orthopedic Surgery

Name of Elective: ORTHOPEDIC SURGERY

Course Description: During the course of the elective the student is exposed to a broad range of orthopedics in the inpatient and outpatient settings. The program should be considered ideal for the medical student planning to enter the field of orthopedics OR a field other than orthopedics, but wishing to be capable of diagnosing and treating simple orthopedic conditions and knowing when to triage or suspect more complex conditions. The student is expected to attend grand rounds, educational conferences, and ward rounds. At the conclusion of the rotation the student will be expected to give a 15 to 20 minute presentation on the orthopedic condition of his or her choice.

Goals & Objectives: By the end of the elective the students should be able to:
1. Demonstrate an evaluation of the musculoskeletal system including history taking, physical examination of the spine and extremities, and interpretation of basic diagnostic tests.
2. Utilize the history, physical examination and simple diagnostic tests in formulating a treatment plan (i.e. physical therapy, pharmacological treatment, further diagnostic study, or surgical intervention).
3. Understand the approach to the assessment of the multiply injured patient and the assessment of those pathologic conditions considered orthopedic emergencies e.g. open fractures, pelvic ring injuries, dislocations, various soft tissue injuries, peripheral neurovascular injuries and spinal injuries.
4. Appreciate the breadth of the field of orthopedics, including the variety of subspecialty divisions of orthopedic surgery including adult reconstruction (e.g. total joint replacement), sports medicine (e.g. arthroscopic surgery of the knee and shoulder), hand surgery, spine surgery, pediatric orthopedics, musculoskeletal oncology and trauma surgery.

Method of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Available throughout the academic year

Site/s:
- St. Joseph's Regional Medical Center Paterson, NJ 07503
  Elective Code: SRGM 5121-STJOM
- Metropolitan Hospital New York, NY
  Elective Code: SRGM 5121-METHM
- Westchester Medical Center, Valhalla, NY 10595
  Elective Code: SRGM 5121-WMCRM
SECTION: OTOLARYNGOLOGY

Department: Otolaryngology

Name of Elective: OTOLARYNGOLOGY

Course Description: This elective is designed for those students who are interested in expanding his/her knowledge about the care of patients with ear, nose and throat problems. The student acts as a junior house officer participating fully in all scheduled conferences, clinics and teaching rounds. The student also participates in surgery and assists with patient care.

During this month each student will spend time on the Head and Neck Surgery service (this includes Pediatric Otolaryngology), the Otology service, and Facial Plastic and Reconstructive Surgery service. The student will be expected to participate with the appropriate material.

Towards the end of the rotation each student will be asked to present a ten to fifteen minute talk on a selected topic. Slides, photographs and references are encouraged.

Goals & Objectives: By the end of this elective the student should be able to develop clinical and academic skills in preparation for a career in otolaryngology, or those interested in enhancing related skills.

Method of Evaluation: Faculty will evaluate students based on demonstrated patient care, interpersonal/communication skills, medical knowledge and professionalism.

Preferred Dates: Available throughout the academic year

Site(s):
- New York Eye & Ear Infirmary, NY, NY (Open to NYMC students only)
  Elective Code: OTOM 5101-NYEEM
- Metropolitan Hospital New York, NY
  Elective Code: OTOM 5101-METHM
- Westchester Medical Center, Valhalla, NY 10595
  Elective Code: OTOM 5101-WMCRM
SECTION: PATHOLOGY

Department: Pathology

Name of Elective: FORENSIC PATHOLOGY

Course Description: This course is designed to familiarize students with all aspects of autopsies performed at the Westchester County Medical Examiner's Office and serve as a review of Histology, Anatomy, and Pathology. The students will assist in the performance of autopsies conducted by the Medical Examiner, visit scenes of death with Medical Investigators, attend court sessions in which medical examiners testify, and assist in forensic pathology matters. Understands the social and legal context in forensic autopsies as well as other elements of forensic pathology such as reporting regulation and chain of custody rules.

Goals & Objectives: By the end of this elective students will be able to:
1. List the criteria for Medical Examiner cases
2. Demonstrate diagnostic ability and correlate autopsy findings
3. Demonstrate technical ability through participation in autopsies
4. Understand the appropriate specimens to retain related to different causes of death
5. Interpret toxicology results.
6. Demonstrate working knowledge of pathology during the autopsy process

Method of evaluation: Students will be evaluated on the following competency domains: medical knowledge, communication skills through required presentations, self-directed learning related to his/her initiative and motivation to learn and progress in his/her forensic knowledge through the rotation, ability to work effectively with all members of the team such as medical examiners and technicians and professionalism.

Preferred Dates: Available throughout the academic year

Sites:
- Department of Labs & Research, Office of Medical Examiner, Valhalla, NY 10595

Elective Code: PTHM 5103-NYMCRM
SECTION: PATHOLOGY

Department: Pathology

Name of Elective: LABORATORY MEDICINE-CLINICAL PATHOLOGY

Course Description: The course is designed to familiarize the student with application of Clinical Laboratory sciences in diagnosis of diseases.

The course emphasizes interpretive and diagnostic aspects of Laboratory Medicine. The laboratory methods and procedures are reviewed only in their relevance to interpretation of the results.

The course will review hematology and coagulation, immunohematology, clinical chemistry, microbiology and clinical microscopy. The students will be encouraged to work up and resolve specific diagnostic problems.

Goals & Objectives: By the end of this elective students will be able to demonstrate an understanding of diagnostic pathology and its key role in clinical decision making.

Method of evaluation: Students will be evaluated on the following competency domains: medical knowledge; interpersonal and communication skills; self-directed learning related to his/her initiative and motivation to learn and progress in his/her content knowledge through the rotation; ability to work and demonstrated professionalism.

Preferred Dates: Available once a year; the last week of March

Site/s:
- Westchester Medical Center, Valhalla, NY 10595

Elective Code: PTHM 5108-WMCRM
SECTION: PATHOLOGY

Department: Pathology

Name of Elective: SURGICAL PATHOLOGY

**Course Description:** We offer an opportunity to students interested in surgery or pathology as a specialty to become familiar with examination of specimens received from the O.R., their routine handling and, when appropriate, a variety of special diagnostic stains, E.M. and immunohistologic tests. Tutelage is by senior staff.

**Goals & Objectives:** By the end of this elective students will be able to demonstrate an understanding of the approach to specimen evaluation on both the gross and microscopic level, taking into account clinical history, disease mechanisms, and the implications of diagnoses for patient management.

**Method of evaluation:** Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning related to his/her initiative and motivation to learn and progress in his/her knowledge about the subject area through the rotation, ability to work effectively with all members of the medical team, and professionalism.

**Preferred Dates:** Available throughout the academic year

**Site(s):**
- Westchester Medical Center, Valhalla, NY 10595
- **Elective Code:** PTHM 5104-WMCRM
SECTION: PEDIATRICS
Department: Pediatrics

Name of Elective: ADOLESCENT MEDICINE

Course Description: The elective rotation in Adolescent Medicine includes participation in the direct patient care of adolescent patients in a variety of settings. Emphasis will be placed on encouraging the student to develop correct attitudes to approach the adolescent patient and to develop skills obtaining a reliable history and performing a complete physical examination, sports physicals, and sick visits. Students will also become familiar with legal issues, confidentiality and limits of confidentiality. They will be exposed to common adolescent problems like acne, obesity, chest pain, menstrual disorders, pregnancy, puberty, growth disorders and approach to a patient with abdominal pain, school problems, anxiety and depression. They will also learn recommendations for screening immunizations and anticipatory guidance.

Goals & Objectives: By the end of this elective the student should be able to:

- Demonstrate the ability to perform both focused and complete history and physical examinations of an adolescent patient, including a complete psychosocial history/ HEADSS assessment.
- Discuss the unique issues related to the health and well-being of adolescent patients including: substance use, sexually transmitted diseases, reproductive health, school problems, psychiatric concerns, and growth disorders

Method of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Available during the academic year

Site(s):
- St. Joseph's Regional Medical Center, Paterson Great Falls Pediatrics & Family Health Ctr
  Elective Code: PEDM 5114-STJOM
- NYMC Combined (MET/ MFCH)
  Elective Code: PEDM 5114-WMCR (This elective is held at both Met and WMC)

**Students enrolled in the MET/MFCH elective will have the option to participate in the following experiences as well:

- Option to participate in the care of resident students of Green Chimneys, a school-based residential treatment facility in Brewster, NY, a 45 minute drive from the Valhalla campus. This facility cares for children and adolescents with mental health problems using a wide array of techniques including very innovative modalities such as gardening and animal husbandry.
- Option to participate in the care of resident students of ANDRUS, a school-based residential treatment facility in Yonkers, NY, a 15 minute drive from the Valhalla campus. This facility cares for children and adolescents with mental health problems, some under the custody of the Administration for Children Services (ACS).
SECTION: PEDIATRICS
Department: Pediatrics

Name of Elective: CHILD ABUSE PEDIATRICS

Course Description: During this elective, the medical student will participate in activities with Child Abuse Pediatrics both at the Maria Fareri Children’s Hospital and the Children’s Advocacy Center (CAC) at the Westchester Institute for Human Development, which is located in Cedarwood Hall on the NYMC Campus. Multi-disciplinary assessments of children and adolescents with concerns for abuse are conducted at the CAC using state-of-the-art forensic medical and interviewing techniques. Further, the student will participate in educationally relevant and valuable off-site activities, including multi-disciplinary team meetings, grand jury and trial testimony, autopsies, and inpatient consults at the Maria Fareri Children’s Hospital. Finally, the medical student will be required to participate in ongoing research at the center on the topic of disclosures of sexual abuse, which will involve chart review and data collection.

Goals & Objectives:
Goals: The goal of this elective is to allow students to gain an awareness of the multi-disciplinary evaluation of the child or adolescent suspected of being abused including the forensic interview, medical examination, and the roles of law enforcement, prosecution and child protective services.

Objectives: By the end of the elective the students should be able to:

1. Understand basic principles of child abuse pediatrics research.
2. Understand basic medical issues related to child abuse pediatrics.
3. Demonstrate an understanding of the dynamics of forensic interviewing techniques and the multidisciplinary team format.
5. Review forensic genital examinations on male and female children using colposcopy with video/photo documentation.
6. Summarize the communication of medical findings of genital colposcopy to members of the multidisciplinary team in appropriate terms.
7. Employ appropriate documentation for abuse cases and understand basic genital anatomy in males and females.
8. Understand basic literature on head trauma, fractures, skin trauma and other aspects of physical abuse evaluations.
9. Understand and complete a literature review specific to issues in a physical abuse case.
10. Understand the role of a child fatality review team.
11. Describe the common presentations of child sexual abuse cases and the appropriate initial work-up in such cases.
12. Describe acute evidence collection examination protocols, including STD prophylaxis and the appropriate timing and methods for collection of a rape kit.
13. Demonstrate understanding of the reporting laws for child abuse, how to complete a mandated reporting form, and what happens once a report is made.
14. Describe the community services available for the investigation and treatment of child abuse cases.
**Methods of Evaluation:** Students will be assessed on their demonstrated clinical skills, medical knowledge, interpersonal communication skills and professional qualities as demonstrated through the following:

- Participation in CAC case reviews, and other departmental conferences, patient assessments.
- 15 minute presentation during the last week of rotation.
- Pre- and post-testing of basic child abuse knowledge using a questionnaire.
- Elective director/designee feedback mid-elective and evaluation after elective.

**Preferred Dates:** Available during the academic year

**Site/s:**
- Maria Fareri Children’s Hospital & Westchester Institute for Human Development
  Valhalla, NY 10595
**Elective Code:** PEDM 5103-WIHDM
SECTION: PEDIATRICS

Department: Pediatrics

Name of Elective: DEVELOPMENTAL PEDIATRICS AND DISABILITIES

Course Description: The section of Developmental Pediatrics provides clinical services for children with known developmental disabilities and those who are at risk for developing disabilities. The clinical entities that students will have an opportunity to learn about include mental retardation, cerebral palsy, spina bifida, seizure disorders, learning disabilities, attention deficit disorder, lead intoxication, behavior disorders, and other developmental problems. This elective will give students an opportunity to participate in the interview and examination of patients under supervision, and have the opportunity to observe patients during the different evaluations during the multidisciplinary assessment process. This includes outpatient evaluations and inpatient consultations. Through participation and observation, the student becomes familiar with developmental screening and testing, psychometric testing, speech and language testing, and hearing testing. Didactic opportunities available during the elective include scheduled lectures, grand rounds and conferences.

Goals & Objectives:

Goals: The goal of this elective is to familiarize students with the causes, diagnoses and treatment of developmental disabilities.

Objectives: By the end of this elective and be able to:
1. Evaluate children exhibiting delays in their developmental progress, either in a specific area, such as motor skills or language skills, or global delays in all areas of development
2. Demonstrate an understanding of how to evaluate and treat children with attention problems and hyperactivity
3. Demonstrate an understanding of how to evaluate and remediate learning difficulties;
4. Recognize the scope of diagnosis and treatment of children with Physical Rehabilitation (Physiatry) needs
5. List the scope of related services available for the disabled in the following areas: Audiology, Early Intervention, Occupational Therapy, Physical Therapy, Psychiatry, Psychology, Social Work, Speech and Language.

Methods of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Available during the academic year

Site/s:

- Westchester Medical Center Valhalla, NY 10595

Elective Code: PEDM 5108-WMCRM
Name of Elective: NEONATAL INTENSIVE CARE UNIT **Open to NYMC students only

Course Description: This is an immersion experience in taking first-line responsibility for the care of sick infants with complex problems requiring care in the NICU. The student will manage two or three patients at a time under the direct supervision of a senior resident and under the indirect supervision of a faculty member. The student will learn to work in an interprofessional team and become familiar with common procedures in the ICU. Students will be expected to participate in night and weekend call during this elective.

**Interested students will have the opportunity to participate in clinical research, either by joining an on-going clinical research project in the Regional Neonatal Intensive Care Unit, or designing a research protocol and completing a project during the elective time and after the elective as desired. Students interested in basic science research can work in the Neonatal Research Laboratory with our research scientists and clinical staff. **It is suggested that 1-3 months be scheduled for research projects or once a week for several months.

Goals & Objectives:

Goals: The goal of this elective is to provide the students with an experience in the care of high-risk newborns under the guidance of attendings and fellows in the neonatal intensive care unit.

Objectives: By the end of the elective the students should be able to:
1. Demonstrate the knowledge of setting care priorities in the diagnosis and management (under supervision) of infants with complex problems that require management in NICU.
2. Communicate effectively with supervisors, nursing staff, and parents.
3. Demonstrate facility in locating primary care sources to enhance understanding of patients' problems.
4. Demonstrate a sound knowledge base and sound judgment, with particular attention to the common clinical problems encountered in the NICU

Methods of Evaluation: Performance and participation in departmental activities will allow faculty to assess a student’s demonstrated clinical skills, interpersonal/communication skills, medical knowledge and professionalism.

Preferred Dates: Available during the academic year

Site/s:
- Westchester Medical Center, Valhalla, NY 10595
  Elective Code: PDEM 5112-WMCRM
- St. Joseph’s Children’s Hospital, Paterson, NJ 07503
  Elective Code: PDEM 5112-STJOM
SECTION: PEDIATRICS

Department: Pediatrics

Name of Elective: PEDIATRIC CARDIOLOGY

Course Description: Pediatric cardiovascular problems offer a unique opportunity for the student to integrate an understanding of physiology with clinical medicine. During this elective, the student will have an opportunity to participate in outpatient and inpatient evaluation of cardiac problems and to follow patients through non-invasive diagnostic work-up and management. The student will also have an opportunity to observe cardiac catheterizations, cardiothoracic surgical procedures and to become involved in perioperative care as there is a close relationship between pediatric cardiology and cardiothoracic surgery. A full series of conferences and an opportunity for clinical research supplements this program.

Goals & Objectives:

Goals: The goal of this elective is to expose the student to the spectrum of pediatric cardiovascular disease.

Objectives: By the end of this elective, the student should be able to:
- Demonstrate insight into the evaluation and management of pediatric cardiovascular disorders.
- Demonstrate the ability to do a thorough history of patients with a cardiovascular complaint and
- Demonstrate the ability to perform cardiac auscultation
- Understand the rationale for using noninvasive/invasive diagnostic techniques in the evaluation and treatment of pediatric patients with cardiovascular issues including: echocardiography, cardiac catheterization, electrophysiology, cardiothoracic surgery
- Understand the elements of the perioperative care of the infant and child with congenital heart disease.

Methods of Evaluation: Students are under the direct supervision of the attending staff and will be evaluated on the basis of clinical skills developed during the elective including communication skills, physical examination/technical skills, professional behaviors and medical knowledge.

Preferred Dates: Available during the academic year

Site(s):
- Maria Fareri Children’s Hospital at Westchester Medical Center Valhalla, NY 10595
  Elective Code: PEDM 5107-WMCRM
- St. Joseph’s Children’s Hospital, Paterson, NJ 07503
  Elective Code: PEDM 5107-STJOM
SECTION: PEDIATRICS

Department: Pediatrics

Name of Elective: PEDIATRIC ENDOCRINOLOGY

Course Description: The pediatric endocrinology service provides care for patients with a wide variety of disorders including diabetes, and disorders of the pituitary, thyroid, and adrenal glands. During this elective students will gain knowledge of basic endocrinology and develop skills in the evaluation and treatment of these disorders.

Goals & Objectives:

Goals: The goal of this elective is to provide students with an overview of the clinical practice of the subspecialty of endocrinology.

Objectives: By the end of this elective the student should be able to demonstrate an understanding of the diagnosis, pathophysiology, and management of the common conditions encountered in the field endocrinology.

Methods of Evaluation: Students are under the direct supervision of the faculty and will be evaluated on the basis of clinical skills developed during the elective including communication skills, physical examination/ technical skills, professional behaviors and medical knowledge.

Site(s):
- Maria Fareri Children’s Hospital at Westchester Medical Center Valhalla, NY 10595
- Elective Code: PEDM 5123-WMCRM
- St. Joseph’s Children’s Hospital, Paterson, NJ 07503
  Elective Code: PEDM 5123-STJOM
SECTION: PEDIATRICS

Department: Pediatrics

Name of Elective: PEDIATRIC GI & HEPATOBILIARY DISEASE

Course Description: The elective program in gastroenterology and nutrition will provide a clinical experience in through the evaluation of patients on the inpatient and outpatient services of the MFCH. Students will be expected to participate in the assessment of patients in the outpatient practice as well as participate in ward rounds with the Attending and function as an integral part of the patient care team as well.

Students are expected to attend clinical conferences, grand rounds and encouraged to view endoscopic procedures and to be involved with the Ambulatory admission of these patients.

Goals & Objectives:
Goals: The goal of this elective is to familiarize the student with the structure and function of the gastrointestinal tract, liver and pancreas and to recognize the pathological disorders and pathophysiology of common gastrointestinal disorders effecting children.

Objectives: By the end of the elective the students should be able to:
1. Demonstrate an understanding of the structure and function of the gastrointestinal tract, liver and pancreas.
2. Recognize pathological functional disorders
3. Demonstrate an understanding of the pathophysiology of common gastrointestinal disorders.
4. Demonstrate the assessment and management of common gastrointestinal disorders
5. Recognize the indications, contraindications and risks of diagnostic procedures used in pediatric gastroenterology.
6. Recognize the components of diet and adequate nutrition, how to evaluate nutritional status, and alternative routes of nutrition used in clinical practice.

Methods of Evaluation:
Faculty will assess students based on demonstrated clinical performance, interpersonal/communication skills, medical knowledge, and professionalism.

Preferred Dates: Available throughout the academic year

Sites:
- Maria Fareri Children’s Hospital at Westchester Medical Center Valhalla, NY 10595
  Elective Code: PEDM 5109-WMCRM
- St. Joseph’s Children’s Hospital, Paterson, NJ 07503
  Elective Code: PEDM 5109-STJOM
SECTION: PEDIATRICS

Department: Pediatrics

Name of Elective: PEDIATRIC HEMATOLOGY/ONCOLOGY

Course Description: The elective program in pediatric hematology/oncology will provide a clinical experience in through the evaluation of patients on the inpatient and outpatient services of the MFCH with diseases of the blood and cancer. During this experience students will be expected to:

- Round with the inpatient team on assigned days, choose 3-4 patients per week that you will be responsible for following up on their care, writing notes, communicating with resident team, etc.
- Assist in the evaluation and follow up of oncology patients in the infusion center. This means follow up history and physical with documentation of the medical decision plan to be done in conjunction with the infusion center nurses and physicians.
- Choose any two hematology, oncology or BMT topics that are of interest to you and prepare a short 10-15 min oral teaching session with the resident team during Friday morning Heme/Onc rounds. The attending on service will be available to help expand any teaching points that come up during your presentation and can help direct you to any good literature on the subject. It is probably more useful if the topic relates to a patient currently in the hospital; however this is not a requirement. It can be broad (i.e. work up of pediatric anemias, principles of bone marrow transplant) or specific (i.e. Acute lymphoblastic leukemia, Sickle cell crisis). This should not be a formal presentation but you may give handouts if you’d like.

Goals & Objectives:

Goals: The goals of this elective are to:

1. Familiarize the student with the wide variety of illness the subspecialty encompasses from benign anemia to aggressive malignancy and to recognize the pathological disorders and pathophysiology of common hematologic and oncologic disorders effecting children.
2. Understand the diversity of treatment settings – specifically acute care in the hospital setting, long term chronic care, chemotherapy infusions and monitoring, and consultation visits.
3. Appreciate the differences in inpatient acute care and management vs. outpatient follow up and treatment.

Objectives: By the end of the elective the students should be able to:

Hematology Specific
1. Demonstrate a basic understanding of sickle cell disease and its long term complications vs. acute sickle cell crises and their management.
2. Describe the basic work up of anemia in the pediatric patient.
3. Describe the basic work up of coagulopathies and thrombotic disease.

Oncology Specific
1. Demonstrate a basic understanding of the types of cancers that we most commonly see in
pediatrics (Leukemia, Lymphoma, CNS tumors, Common solid tumors)

2. Describe the basic concepts of chemotherapy classes and how treatment protocols are designed to provide Induction, Consolidation and Maintenance phases.

3. Define the monitoring that is required during chemotherapy treatment (both inpatient and outpatient) as well as common long term side effects.

4. Demonstrate an understanding about the management principles behind fever and neutropenia in the immunocompromised patient.

Bone Marrow and Stem Cell Specific

1. Demonstrate a basic knowledge of which types of diseases can currently be cured with bone marrow transplant – both malignant and non-malignant.

2. Describe the implications for bone marrow transplant in malignant disease (up front vs. relapse disease, autologous SCT vs. allogeneic) and non-malignant disease.

3. Demonstrate an understanding about the basic concepts of bone marrow and stem cell transplant – types of stem cell sources, types of conditioning regimens, what supportive care is needed and why, what are the most common and toxic complications of transplant.

Methods of Evaluation: Faculty will assess students based on demonstrated clinical performance, interpersonal/communication skills, medical knowledge, and professionalism.

Preferred Dates: Available throughout the academic year

Sites:
- Maria Fareri Children’s Hospital at Westchester Medical Center, Valhalla, NY 10595

Elective Code: PEDM 5131-WMCRM
SECTION: PEDIATRICS

Department: Pediatrics

Name of Elective: PEDIATRIC INFECTIOUS DISEASES

Course Description: During the pediatric infectious diseases elective, students will have the opportunity to round with the Pediatric Infectious Diseases attending and resident on patients admitted to the Maria Fareri Children’s Hospital and attend outpatient subspecialty clinics. The student will be expected to follow the daily course of patients on the Pediatric Infectious Diseases service, to present daily to the attending and to write progress notes. Emphasis will be on a “problem-focused” approach to patient care. The student will be expected to assess at least two new patients per week and to review two to three topics during the rotation and present it to the members of the ID team. Introductory texts and review articles will be provided for use during the rotation.

Goals & Objectives:
Goals: The goal of this elective is to provide students with an appreciation of the approach and management of pediatric patients with infectious diseases.

Objectives: By the end of the elective, the students should be able to:
1. Demonstrate the ability to perform an infectious disease history, physical examination and interpret laboratory tests related to infectious diseases.
2. Recognize the elements of a Pediatric Infectious Diseases consult, including how to organize the case for presentation to the attending.
3. Recognize the signs and symptoms, most common organisms, most appropriate diagnostic testing methods associated with specific pediatric infectious diseases including but not limited to pneumonia, urinary tract infections, skin and soft tissue infections, bone and joint infections, meningitis, sepsis, HIV, tuberculosis
4. Demonstrate knowledge about the appropriate use of antibiotics.
5. Understand the rationale behind common infection control practices for specific infectious diseases.
6. List examples of key pediatric infectious diseases resources for the general practitioner.

Methods of Evaluation: The student will be evaluated by the faculty based on their clinical presentations, clinical skills and growth in their basic knowledge of infectious diseases as evidenced in their write-ups and discussions during rounds. A take-home test is provided at the beginning of the rotation to allow the student to take a problem based approach to the relevant material and provide information for discussion during the rotation with the team.

Preferred Dates: Available throughout the academic year

Site/s:
- Maria Fareri Children’s Hospital at Westchester Medical Center, Valhalla, NY 10595
Elective Code: PEDM 5118-WMCRM
SECTION: PEDIATRICS

Department: Pediatric

Name of Elective: PEDIATRIC INTENSIVE CARE UNIT **Open to NYMC Students Only

Course Description: During the pediatric intensive care elective, the student will manage two or three critically ill patients at a time under the direct supervision of a senior resident and under the indirect supervision of a faculty member. The student will fully participate in the ICU care team, including ward rounds and educational conferences. They will also have the ability to participate in the observation of invasive procedures in the intensive care unit and review mechanical ventilation.

Goals & Objectives:
Goals: This goal of this elective is to provide an immersion experience in taking first-line responsibility for the care of sick children with complex problems requiring care in the PICU.

Objectives: By the end of this elective, the student should be able to:
1. Set priorities in the diagnosis and management (under supervision) of children with complex problems that require management in PICU.
2. Communicate effectively with supervisors, nursing staff, parents and children.
3. Demonstrate facility in locating primary care sources to enhance understanding of patients' problems.
4. Demonstrate a sound knowledge base and sound judgment with regard to the care of pediatric patients with complex medical problems

Methods of Evaluation:
Faculty and Senior Resident input will be provided to assess the student’s medical knowledge, communication skills, demonstrated patient care, and professional qualities.

Preferred Dates: Available during the academic year

Site/s:
- Maria Fareri Children’s Hospital at Westchester Medical Center, Valhalla, NY 10595
  Elective Code: PEDM 5220-WMCRM
- St. Joseph’s Children’s Hospital, Paterson, NJ 07503
  Elective Code: PEDM 5220-STJOM
SECTION: PEDIATRICS

Department: Pediatrics

Name of Elective: PEDIATRIC NEPHROLOGY

Course Description: During the elective the student will participate fully in the activities of this subspecialty department in both the inpatient and outpatient setting. The student will round with Nephrology attending on admitted patients at Maria Fareri Children’s Hospital and follow the patients daily. The student will also participate in outpatient clinic under supervision of Nephrology attending 2-3 times a week, weekly pediatric nephrology clinical conference, monthly journal club and monthly renal pathology conference.

Basic reading and seminars are assigned to cover developmental nephrology, renal physiology and pathology. The interpretation of laboratory and other diagnostic data in the clinical setting of disorders of electrolytes, acid base balance and various renal diseases in children and neonates is stressed.

Goals & Objectives:
Goals: The goal of the pediatric nephrology elective is to provide students with an exposure to acute and chronic pediatric renal disorders, including the care of children on dialysis and post-kidney transplant.

Objectives: By the end of this elective, the student should be able to:
1. Demonstrate an understanding of the basic principles of renal physiology and pediatric nephrology.
2. Demonstrate an understanding of common nephrology syndromes and diseases, approaches do to differential diagnosis and treatment.

Methods Of Evaluation: Direct observation by the Program Director or attending nephrologist, based on clinical performance/ demonstrated patient care, fund of knowledge, interpersonal/communication skills, case presentations/ seminar topics, and professionalism.

Preferred Dates: Available during the academic year

Site/s:
- Maria Fareri Children’s Hospital at Westchester Medical Center, Valhalla, NY 10595

Elective Code: PEDM 5111-WMCRM
SECTION: PEDIATRICS

Department: Pediatrics

Name of Elective: PEDIATRIC PULMONARY DISEASES

Course Description: On day 1, the student will meet with a faculty member for orientation, during which they will be given an individualized schedule assuring a well-rounded experience in both outpatient and inpatient settings.

Inpatient: During their inpatient experience, students will assist and augment the work of the pediatric pulmonology fellows and attendings on work rounds, teaching rounds; including completing new consultations in all areas of the Maria Fareri Children’s Hospital (emergency department, pediatric ICU, neonatal ICU, and medical/surgical units); and managing inpatients on the pediatric pulmonology service. Students will be expected to participate in family-centered rounds with the floor teams. If possible, students will also join the pediatric pulmonology inpatient team in the performance of flexible bronchoscopy when required.

Outpatient: The bulk of the experience will be in the outpatient setting, where students will participate in the office care of children with a wide spectrum of respiratory disorders. The Pediatric Pulmonology division has a very busy outpatient program, with over 150 children seen per week in their suite at 19 Bradhurst Avenue, across the Sprain from Westchester Medical Center. Students will have the opportunity to work one-on-one with a large group of pediatric pulmonologists during their consultative hours. During this experience, students will focus on applying respiratory physiologic principles to the diagnosis and management of children with respiratory disorders, and become comfortable with the integration of pulmonary function tests into the management of asthma and other conditions. Additionally, students will attend the Chest Clinic once a week where they will have the opportunity to interview, examine and present patients to the Clinic Attending. Students will be encouraged to observe the performance of full PFTs in the PFT laboratory as well as observe the performance of a sweat test.

Didactic: The pediatric pulmonology division has 4 hours of conferences per week, and the students on elective are expected to attend and participate in all of them. These include a wide range of both basic science and clinical science topics as part of the curriculum for our fellowship in pediatric pulmonology. This also includes sessions given by both pediatric pulmonology fellows and faculty. At the beginning of their elective, each student will be given the opportunity to prepare and present a short topic of their choice in pediatric pulmonology towards the end of their elective.

Research: The division participates in several clinical trials throughout the year. The research offices are in the same clinical suite as our outpatient program. Students will be expected to learn about these research projects, usually involving patients with asthma or cystic fibrosis. Though not required, many students choose to assist our physicians and research coordinators during study visits, really learning what it is like to complete clinical trials in children.
Goals & Objectives:  
Goals: The goal of this elective is to familiarize students with the spectrum of lung disorders effecting pediatric patients.

Objectives: By the end of this elective the student will be able to
1. Demonstrate an understanding of the diagnosis and management of childhood respiratory diseases, including croup, bronchiolitis, asthma, pneumonia, cystic fibrosis, bronchopulmonary dysplasia, and respiratory illness in neurologically impaired children.
2. Perform and to interpret pulmonary function tests, and how to use such tests in clinical practice in children of all ages.
3. Apply respiratory physiological principles to the management of children with respiratory disease.
4. Demonstrate the ability to obtain an environmental history and how to incorporate that into clinical practice.
5. Appreciate the importance of clinical trials research in children with respiratory disease.

Methods of Evaluation: Individual evaluation by the faculty on both inpatient service and in the outpatient setting based upon the student’s medical knowledge, communication skills, demonstrated patient care, and professional qualities.

Preferred Dates: Available throughout the entire academic year

Site/s:  
- Maria Fareri Children’s Hospital at Westchester Medical Center, Valhalla, NY 10595  
  Elective Code: PEDM 5113-WMCRM
- St. Joseph’s Children’s Hospital, Paterson, NJ 07503  
  Elective Code: PEDM 5113-STJOM
SECTION: PEDIATRICS

Department: Pediatrics

Name of Elective: PEDIATRIC SUB-INTERNSHIP **Open to NYMC students only

Course Description: This elective is an immersion experience in taking first-line responsibility for the care of hospitalized children. The student will manage two to four patients at a time under the direct supervision of a senior resident and faculty member.

Goals & Objectives: By the end of this elective, the student should be able to:
   1. Set priorities in the diagnosis and management (under supervision) of children with common and complex problems that require management in hospital.
   2. Communicate effectively with supervisors, nursing staff, parents and children.
   3. Demonstrate facility in locating primary care sources to enhance understanding of patients' problems.
   4. Demonstrate a sound knowledge base and sound judgment.

Methods of Evaluation: Faculty and Chief Resident input about demonstrated patient care, medical knowledge, interpersonal/communication skills, and professional qualities.

Preferred Dates: Available throughout the entire academic year

Site/s:

- Maria Fareri Children’s Hospital at Westchester Medical Center, Valhalla, NY 10595
  Elective Code: PEDM 5102-WMCRM
- St. Joseph’s Regional Medical Center Paterson, NJ 07503
  Elective Code: PEDM 5102-STJOM
SECTION: PHYSICAL MEDICINE AND REHABILITATION

Department: Physical Medicine and Rehabilitation

Name of Elective: REHABILITATION MEDICINE **Open to NYMC Students Only

Course Description: During this elective the student will learn about the diagnosis, etiology, treatment, prevention, and rehabilitation of those neuromuscular, musculoskeletal, cardiovascular, pulmonary, and other system disorders common in the specialty. The rotating student will be responsible for the evaluation and treatment of selected patients under direct faculty supervision and guidance. The student will also participate in clinics, team meetings, ward rounds, and electrodiagnostic sessions, as well as regularly scheduled departmental conferences and other selected teaching activities.

Goals & Objectives:

Goals: The goal of this elective is to expose the student to the entire spectrum of physical and rehabilitation medicine in a clinical setting.

Objectives: By the end of this elective students will be able to:
1. Demonstrate a comfort level with the assessment and care of individuals with disabilities that present for evaluation and a framework on where to look to obtain further information.
2. Develop an awareness of the psycho-social issues faced by the individual with disability or chronic illness.
3. Demonstrate an appreciation of the need for a functional or outcomes-based approach to the continuum of medical care.
4. Discuss the uses of the following modalities used in the care of patients with physical disabilities: prosthetics, orthotics, and electrodiagnosis, including electromyography and evoked potentials
5. Demonstrate the ability to work as a member of a clinical team

Method of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Available throughout the academic year

Site(s):
- Metropolitan Hospital Center, NY, NY 10029

Elective Code: RHBM 5101-METHM
SECTION: PSYCHIATRY

Department: Psychiatry

Name of Elective: ADULT INPATIENT PSYCHIATRY

Course Description: During this elective the student functions as an integral member of the treatment team. Clinical responsibilities include psychiatric intake, evaluation, management and disposition planning of specifically assigned patients under the close supervision of an attending psychiatrist. The student gains skills in psychiatric examination and evaluation, interviewing techniques, psychopharmacology and is offered some beginning experience in psychotherapeutic techniques.

Students will experience firsthand the daily roles of an inpatient psychiatrist. Through patient interactions, students will have exposure to a wide variety of psychiatric illnesses. Students will have the opportunity to observe the longitudinal course of chronic psychiatric illnesses and participate in patient treatment from acute management to long-term care.

There are many learning opportunities for students including lectures and weekly Grand Rounds. In addition, students have opportunities to be involved with teaching, including supervising third year students, giving lectures, and participating in the education day that will prepare third year students for their psychiatry shelf examination.

Goals and Objectives: By the end of this elective the student should be able to:

1. Demonstrate the ability to assess and manage a patient presenting with an acute psychiatric complaint
2. List the components of discharge planning involved with psychiatric patients after discharge from an inpatient hospitalization
3. Demonstrate an understanding of the major classes of medications used in the treatment of psychiatric conditions

Method of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Offered throughout the academic year

Site/s:
- Westchester Medical Center, Valhalla, NY
- Elective Code: PSYM 5102-WMCRM
SECTION: PSYCHIATRY

Department: Psychiatry

Name of Elective: ADULT OUTPATIENT PSYCHIATRY

Course Description: During this elective the student is responsible for the intake, psychiatric examination and outpatient treatment (short and long term and follow-up care of assigned patients under the supervision of an attending psychiatrist of patients presenting with psychiatric conditions.

Goals and Objectives: By the end of this elective the student should be able to:

1. Demonstrate the ability to assess and manage a patient presenting with an acute psychiatric complaint in the outpatient setting
2. Demonstrate an understanding of the major classes of medications used in the treatment of psychiatric conditions
3. List the types of short and long-term care plans that may be utilized as part of the treatment plan for patients with psychiatric conditions.

Method of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Offered throughout the academic year

Site/s:

- Westchester Medical Center, Valhalla, NY 10595
- Elective Code: PSYM 5103-WMCRM
SECTION: PSYCHIATRY

Department: Psychiatry

Name of Elective: CHILD PSYCHIATRY

Course Description: During this elective, the student functions as an integral member of a treatment team responsible for specifically assigned children under the close supervision of an attending psychiatrist on a number of child psychiatric services including in and outpatient facilities. Clinical responsibilities include psychiatric intake and evaluation of children; family studies, medical management, disposition planning, consultation and developing close working relationships with other professional staff including teachers, social workers, nurses, psychologists and recreational therapists. The student gains skills in psychiatric examination and evaluation, interviewing techniques, psychopharmacology and is offered some beginning experience in psychotherapeutic techniques specific to child and adolescent psychiatry.

Students will experience firsthand the daily roles of an inpatient and outpatient child psychiatrist. Through patient interactions, students will have exposure to a wide variety of psychiatric illnesses. Students will have the opportunity to observe the longitudinal course of chronic psychiatric illnesses and participate in patient treatment from acute management to long-term care.

During the elective students will have the opportunity to interact with the director of Child Psychiatry. There are many learning opportunities for students including lectures and weekly Grand Rounds. Students have the opportunity to be involved in teaching as well.

Goals and Objectives: By the end of this elective the student should be able to:
1. Demonstrate the ability to assess and manage a pediatric patient presenting with an acute/chronic psychiatric complaints
2. Demonstrate an understanding of the major classes of medications used in the treatment of pediatric patients with psychiatric conditions
3. Demonstrate the ability to work on an interprofessional care team

Method of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Offered throughout the academic year

Site/s:
- Westchester Medical Center, Valhalla, NY 10595
- Elective Code: PSYM 5106-WMCRM
SECTION: PSYCHIATRY

Department: Psychiatry

Name of Elective: CONSULTATION / LIAISON PSYCHIATRY

Course Description: The student is responsible for responding to psychiatric consultations from medical, surgical, critical care, and other services. Duties include psychiatric examination and evaluation of patients, consultation with staff of various medical services and attendance at conferences and rounds. Students will have the opportunity to work one on one with a board certified consultation/liaison psychiatrist.

Students will have the opportunity to observe psychiatric manifestations in an acute medical setting. Students will gain knowledge of basic principles of psychosomatic medicine and learn to integrate psychiatric and medical care. Students will be exposed to a wide variety of cases and will gain clinical reasoning skills in assessing and treating psychiatric components of medical illnesses.

Goals and Objectives: By the end of this elective the student should be able to:

1. Demonstrate the ability to assess and manage a patient presenting with an acute psychiatric complaint on a medical, surgical or critical care service
2. Demonstrate an understanding of the major classes of medications used in the treatment of psychiatric conditions

Method of Evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Offered throughout the academic year

Site/s:

- Westchester Medical Center, Valhalla, NY 10595

Elective Code: PSYM 5105-WMCRM
SECTION: PSYCHIATRY

Department: Psychiatry

Name of Elective: PSYCHIATRIC EMERGENCY ROOM

**Course Description:** During this elective the student will participate in the initial evaluation at the emergency room and be a part of the decision of psychiatric admission including mental status examination, physical examination, review of laboratory data, be familiar with the legal documents (voluntary vs. involuntary admission) and will also learn how to place the initial orders when a patient is admitted to the floor including psychopharmacology and the level of monitoring (constant observation vs. Q15 minute checks). Student will also be familiar with the detoxification protocols in the treatment of substance withdrawal.

The student will also be familiar with clinical steps made when patients are not admitted and are referred back to the community which involves, besides the psychiatric evaluation of the patient, contact with the families and friends to gather collateral information and make proper referral for the outpatient follow-up.

**Goals and Objectives:** By the end of this elective the student should be able to:

1. Demonstrate the ability to assess and manage a patient presenting with an acute psychiatric complaint
2. Demonstrate an understanding of the major classes of medications used in the treatment of psychiatric conditions
3. Understand to components of hospitalization of psychiatric patients
4. List the components of a detoxification protocol for patients admitted with substance abuse

**Method of Evaluation:** Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

**Preferred Dates:** Offered throughout the academic year

**Site/s:**
- Westchester Medical Center, Valhalla, NY 10595

**Elective Code:** PSYM 5112-WMCRM
SECTION: RADIOLOGY

Department: Radiology

Name of Elective: Advanced Clinical Radiology

Course Description: Multimodality rotation through radiology department that will introduce the student to plain film, ultrasound (US), computed tomography (CT), magnetic resonance imaging (MRI) and interventional radiology (IR). Students will rotate through the diagnostic imaging services covering thoracic and abdominal imaging, neuroimaging, musculoskeletal, and pediatric radiology. Student will spend time on the interventional radiology service in procedures and performing pre- and post-procedure patient care and evaluation.

Goals & Objectives: At the completion of this advanced radiology elective, medical students should be able to:

- Be conversant with different imaging modalities and assessment of test appropriateness as it relates to commonly encountered diseases or symptoms
- Understand basic appearance of normal and abnormal imaging on plain film radiography, CT, MRI, and ultrasound
- Have greater understanding of medical imaging as it relates to anatomy and physiology of normal processes and disease states
- Understand the cost-benefit ratio regarding diagnostic, screening and surveillance imaging for benign and malignant disease
- Student schedule and Responsibilities: Monday-Friday 8:30am-5 pm

Teaching Modalities: Radiology readout sessions, daily noon conference lecture series, daily interdisciplinary conferences

Method of evaluation: Formal end of rotation summative evaluation based on observership from department faculty.

Available: Throughout the academic year

Site/s:
- Westchester Medical Center, Valhalla, NY 10595

Elective Code: RADM 5105-WMCRM
SECTION: RADIOLOGY

Department: Radiology

Name of Elective: RADIOLOGY and DIAGNOSTIC MEDICINE **Open to NYMC students only

Course Description: Highly structured full-time, one month course for fourth year medical students at New York Medical College. Course includes instruction tape slide seminars, programmed problem packets, lectures, tutorials, film reading sessions, conferences, all clinically oriented. The course not only reviews the basics of radiologic interpretation but reviews embryology, anatomy, histology, physiology, pharmacology, pathophysiology, the third year clerkships, laboratory medicine, ethics and health care as it pertains to the daily topics being covered. ATTENDANCE IS MANDATORY DURING THIS ELECTIVE.

Goals & Objectives: The goal is to orient the student to the world of radiology and how the radiologist aids the clinician in patient care as well as to educate the student in basic radiologic interpretation. Through didactic lectures and practical experiences the student is exposed to current techniques in radiology, In addition, the course is designed to provide longitudinal learning in which aspects of the first three years of medical school are revisited allowing for a longitudinal continuing learning plan.

Method of evaluation: There is a short written multiple choice midterm and final examination. In addition, the students are evaluated upon their in-class performance and interaction.

Site/s:
- NYMC, Valhalla, NY 10595

Elective Code: RADM 5106-NYMCM (USE THIS CODE ONLY FOR FOURTH YEAR ELECTIVE. CODE NOT TO BE USED FOR REQUIRED TRACK COURSE.)
SECTION: RADIOLOGY ONCOLOGY

Department: Radiation Oncology

Name of Elective: RADIATION ONCOLOGY

Course Description: This elective will provide students with an introduction to oncology and the role of radiation therapy in cancer management. The student will be assigned to a radiation therapist who will illustrate through his everyday experience with patients some of the basic facts of cancer etiology, natural history and efficacy of therapy. The fundamentals of the effect of radiation will be illustrated and discussed in informal sessions covering the method of planning therapy, the various modalities of irradiation, their potential and limitations. Students will be able to observe radiotherapy procedures and participate in the primary evaluations and follow-up of patients.

Goals & Objectives:

Goals: This elective is designed as an introduction to Radiation Oncology and role of radiation therapy in the management of cancer.

Objectives: By the end of this elective students will be able to:

1. Understand the role of the following individuals in the team-based care of a patient requiring radiation therapy: Radiation Oncologist, Radiation Physicist, and Radiation Therapist.

2. Understand the basics of radiation oncology as a specialty, conventional and advanced methods of radiation services (e.g. Conventional External beam radiation therapy, Stereotactic Radiosurgery/ SRS, Intensity Modulated Radiation Therapy/IMRT), Brachytherapy and Hyperthermia)

Method of evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Site/s:

- Westchester Medical Center, Valhalla, NY 10595

Elective Code: RONM 5103-WMCRM

**For information regarding our department the students are encouraged to visit the website of the Department of Radiation Medicine at www.cancercdocs-radiation.com
SECTION: SURGERY

Department: Surgery

Name of Elective: BURN TRAUMA & BURN UNIT **Open to NYMC Students ONLY

Course Description: This elective will offer the fourth year student an introduction to the concepts and principles of burn injury management and the fundamentals of burn injury pathophysiology. This is a hands-on, sub-intern experience, in which the student will be fully integrated into all clinical activities of the service. The student will be an active member of the burn trauma team (attending faculty, fellows, resident house staff, physician assistants, and nurse practitioners) and will participate in the initial assessment and resuscitation of the acutely injured patient upon presentation to Westchester Medical Center’s specialized quaternary care Burn Center. The student will evaluate, formulate diagnostic and therapeutic plans, and assist in the operative and non-operative treatment of burn injury patients. The student will follow patients from presentation through their hospitalization; from emergency room resuscitation, to the operating room, ICU, and/or surgical ward, and outpatient ambulatory clinic which provides the student opportunity for continuity of care, and understanding of the short- and long-term complications and care of the patients. The student will be expected to participate in all didactic activities and conference schedule of the Burn Service including teaching rounds and conferences.

Goals: This elective will offer the fourth year student an introduction to the concepts and principles of burn injury management and fundamentals of pathophysiology as applied to comprehensive patient care, including the evaluation, resuscitation, clinical management and rehabilitation of the acutely injured burn patient.

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

- Demonstrate an organized approach to the assessment, resuscitation, stabilization and provision of definitive care of the burn trauma victim that includes application of the basic sciences in the critical care domain
- Demonstrate an understanding of the systemic effects of a burn wound in the critically injured patient including sepsis, gastrointestinal effects, immunologic problems, cardio-respiratory effects including shock, abdominal compartment syndrome, renal effects, hypermetabolism, and infection
- Understand the methods of nutritional assessment and administration in the critically injured burn patient
- Become familiar with, and able to use, all of the modes of mechanical ventilation in patients with respiratory failure; understand the appropriate use and misuse of these modes
- Understand the indications, techniques for harvest, application, immobilization, and care of split- and full-thickness skin grafts
- Demonstrate familiarity with the indications, patient preparation and possible complications of hyperbaric oxygen treatment in burn and wound patients
- Demonstrate evidence-based decision-making and appropriate use of educational resources and apply the evolving clinical literature to improve patient care practices
- Develop interpersonal interactions and communication skills that enable them to establish and maintain professional relationships with patients, families, and other members of health care team (social workers, physical therapists, occupational therapists, nutrition support,
pharmacy) to assist patients and their families in dealing effectively with the health care system, to improve systematic processes of care, and to provide high quality and value driven care.

**Methods of Evaluation:** Attending composite evaluation based upon feedback and input from the Burn Service Team (attending faculty, fellows, residents, nurse practitioners, and physician assistants) assessing the student’s demonstrated medical knowledge, clinical skills, interpersonal/communication skills, interprofessional collaboration, and professional qualities.

**Elective Duration:** 4 weeks

**Preferred Dates:** Available throughout the academic year

**Sites:**
- Westchester Medical Center, Burn Unit

**Elective Code:** SRGM 5108-WMCRM
SECTION: SURGERY

Department: Surgery

Name of Elective: CARDIOTHORACIC SURGERY

**Course Description:** Students will participate as sub-interns on the cardiothoracic surgery service. The student will gain exposure to coronary artery disease, valvular heart disease, arrhythmia surgery, diseases of the lung and esophagus and diseases of the great vessels, including aneurysms and aortic dissections. During the elective, the student will be expected to complete histories and physical examinations, participate in the pre-operative evaluations of patients, round in the cardiothoracic ICU and participate in the operating room. In the ICU students will gain additional exposure to cardiac physiology, respiratory physiology, arrhythmias and surgical nutrition. During the elective, the student will be under the direct supervision of an attending physician, and expected to review pertinent literature for case discussions.

**Goals & Objectives:**

**Goals:** The goal of the cardiothoracic surgery elective is to provide students with an analytical approach to the surgical problems of the heart, lungs, mediastinum and esophagus.

**Objectives:** By the end of the elective the students should be able to:

1. Develop an analytical approach to assessment and management of diseases of the heart, lungs, mediastinum and esophagus
2. Incorporate knowledge of cardiovascular and respiratory physiology into medical decision-making.

**Methods of Evaluation:** Students will be evaluated on demonstrated patient care, interpersonal/communication skills, medical knowledge and professionalism.

**Preferred Dates:** Available throughout the academic year

**Site/s:**

- Westchester Medical Center, Valhalla, NY 10595
  **Elective Code:** SRGM 5106-WMCRM
- St. Joseph's Regional Medical Center Paterson, NJ 07503
  **Elective Code:** SRGM 5106-STJOM
SECTION: SURGERY

Department: Surgery

Name of Elective: GENERAL SURGERY SUBINTERNSHIP **Open to NYMC students ONLY

Course Description: This elective will allow students to develop experience and skills in a "hands on" fashion to prepare for General Surgery Residency. During this elective, students will develop and expand H&P skills on surgical patients; gain firsthand initial experience with surgical emergencies. Students will follow patients to the operating room and be substantially involved in the procedure. Students will become familiar with management of post-operative complications. Special attention will be given to pre-operative preparation of seriously ill patients.

Students will also participate in the regularly scheduled activities of the Surgical Service, which may include morbidity and mortality conference, grand rounds and case management conferences. In addition, the student will participate fully in attending ward rounds. Students will be required to keep a patient and procedure log during the elective. Each student will be expected to review pertinent literature following patient work-ups to enhance their knowledge of the specific disease entity encountered.

Goals & Objectives:

Goals: The goal of the surgical subinternship is to help students achieve an understanding of the evaluation and management of common problems faced by patients on the inpatient surgical service.

Objectives: By the end of the elective the students should be able to:
1. Develop skills in surgical diagnosis, management and follow-up of common clinical problems presenting on a surgical service of common in both the inpatient and outpatient settings, including operative and non-operative approaches to patient care.
2. List the indications for appropriate and timely referral of patients for surgical consultation.
3. Gain an appreciation for the physical, psychological, and socioeconomic disruptions that might accompany surgical illnesses.
4. Demonstrate the ability to accurately diagnose patients who are in need of surgical intervention.
5. Demonstrate professional attitudes on the surgical service.

Methods of Evaluation: Faculty will evaluate students based on demonstrated patient care, interpersonal/communication skills, medical knowledge and professionalism based on daily observation, daily presentation of patients, direct observation in emergencies, direct observation in the OR and required formal presentation

Preferred Dates: Available throughout the academic year
Site(s):

- Metropolitan Hospital New York, NY  
  Elective Code: SRGM 5101-METHM
- Westchester Medical Center, Valhalla, NY 10595  
  Elective Code: SRGM 5101-WMCRM
- St. Joseph's Regional Medical Center, Paterson, NJ 07503  
  Elective Code: SRGM 5101-STJOM
SECTION: SURGERY

Department: Neurosurgery

Name of Elective: NEUROSURGERY

Course Description: During this elective students will participate in the inpatient and outpatient evaluation of patients who present with neurosurgical complaints in pediatric, vascular, endocrine, neuro-oncology, and spinal categories. Students will also have the opportunity to participate in the management of patients who required neurosurgical intervention in the operating room. Through these experiences, students will have a better appreciation of the field of neurosurgery as a career option for residency training. Students who are considering a career in any of the neurosciences are encouraged to participate.

Goals & Objectives: By the end of this elective students should be able to:
1. Demonstrate an understanding of the anatomy, physiology, pathophysiology, and presentation of disorders of the brain and spine
2. Demonstrate the ability to evaluate a patient who presents with a neurosurgical complaint
3. Develop proper diagnostic plan in patients with neurosurgical complaints

Method of evaluation: Students will be evaluated on the following competency domains: medical knowledge, interpersonal and communication skills, self-directed learning, and demonstrated professionalism.

Preferred Dates: Available throughout the academic year

Site/s:
- Westchester Medical Center, Valhalla, NY 10595

Elective Code: SRGM 5118-WMCRM
SECTION: SURGERY

Department: Surgery

Name of Elective: SURGICAL INTENSIVE CARE UNIT Open to NYMC students only

Course Description: This is an intensive subintern experience in which fourth year students will be fully integrated into the multidisciplinary care team. Students will be assigned to a surgical intensive care unit and work closely with the critical care fellows and attendings in the diagnosis, preoperative preparation, operative treatment, postoperative care, and follow-up of trauma and surgical patients. Patients will include the entire breadth of surgical pathology including solid-organ transplantation, vascular surgery, thoracic surgery, urology and other surgical subspecialties. The student will participate in all procedures performed in the intensive care unit including central/arterial line placement and changes, and chest tube placement/removal and will be responsible for effectively presenting patients on attending rounds, and devising basic diagnostic and therapeutic plans for their patients. In addition, subinterns are expected to take overnight call once per week and give a brief power point presentation on a topic in critical care. Participation is concentrated in daily bedside rounds, resuscitation/critical care conference, morbidity and mortality conference and general surgery conferences.

Goals & Objectives:
Goals: The goal of the elective in the surgical intensive care unit is to provide students with an understanding of the pathophysiologic processes involved in shock and critical illness; to understand the problems involved in hemorrhage, trauma and sepsis; and to understand therapeutic methods in support of cardiac function, pulmonary function, renal function, liver function, and immune function in such patients.

Objectives: By the end of the elective the students should be able to:
1. Demonstrate an understanding of the pathophysiologic processes involved in shock and critical illness; to understand the problems involved in hemorrhage, trauma and sepsis; and to understand therapeutic methods in support of cardiac function, pulmonary function, renal function, liver function, and immune function in such patients.
2. Understand the use of mechanical ventilation, invasive hemodynamic monitoring and other technology used to monitor and support organ function commonly seen in the critical care setting.
3. Demonstrate an organized approach to the critically ill patient and understand the evidence based guidelines that are the basis of diagnosis and management in the surgical intensive care unit.

Methods of Evaluation: Oral examination and faculty evaluation will be used to assess the student’s medical knowledge, clinical skills, interpersonal/communication skills and professional qualities.

Preferred Dates: Available throughout the academic year
Site/s:

- Metropolitan Hospital Center NY, NY
  **Elective Code:** SRGM 5102-METHM
- St. Joseph’s Regional Medical Center, Paterson, NJ 07503
  **Elective Code:** SRGM 5102-STJOM
- Westchester Medical Center Valhalla, NY 10595
  **Elective Code:** SRGM 5102-WMCRM
SECTION: SURGERY

Department: Surgery

Name of Elective: TRAUMA SURGERY

Course Description: This elective will offer the student an introduction to the identification of traumatic injury and the management of the injured patient. This will be a hands-on, sub-intern experience, in which the student will be fully integrated into all the clinical activities of the service. The student will be expected to join the attending the house staff in the initial assessment and resuscitation of the acutely injured patient as they present to the resuscitation bay. The student will see, work-up, and assist in the treatment of patients with traumatic injury. The student will follow patients during their hospitalization; from the resuscitation bay, to the operating room, then to the ICU or surgical ward. Finally, the student will have the opportunity to see their patients in the clinics to monitor their progress. Students will also have ample exposure to adjunctive diagnostic and therapeutic modalities involved in the care of trauma patients. The student will be expected to participate in all activities pertaining to the Trauma Service including rounds and conferences.

Goals & Objectives:

Goals: The goal of this elective are to allow students to learn and understand about the identification and management of patients injured by trauma.

Objectives: By the end of this elective the student should be able to:
1. Demonstrate understanding about the identification and management of the injured patient, especially during the first hours after traumatic injury.
2. List the common pitfalls in the assessment and resuscitation of the injured patient, and how to avoid them.
3. Demonstrate an understanding of how to access relevant clinical practice management guidelines for use in the care of patients with traumatic injury.

Methods of Evaluation: Housestaff and attending evaluation based upon demonstrated medical knowledge, clinical skills, interpersonal/communication skills and professional qualities.

Site/s:

- Westchester Medical Center, Valhalla, NY 10595
  Elective Code: SRGM 5115-WMCRM
  Preferred Dates: Available throughout the academic year

- St. Josephs’ Regional Medical Center, Paterson, NJ 07503
  Elective Code: SRGM 5115-STJOM
  Preferred Dates: August-December, January-June
SECTION: SURGERY

Department: Surgery

Name of Elective: VASCULAR SURGERY

Course Description: During this elective students will be part of the vascular surgery team and function under close supervision. They will attend weekly conferences such as Morbidity & Mortality, Grand Rounds, and Vascular/Transplant conference. Students will participate in preoperative diagnostic testing using techniques such as physical exam, doppler ultrasound and angiography to assess patients and observe new endovascular techniques such as repair of abdominal aortic aneurysms. Students will also participate in operative procedures with the senior residents and attending staff.

Goals & Objectives:

Goals: The goal of this elective is to provide students with exposure to the basic preoperative, intraoperative, and postoperative care of vascular surgery patients and learn to correlate underlying pathophysiology with clinical presentations in patients with disorders of the vascular system.

Objectives: By the end of this program the student should be able to:

1. Recognize the approach to the preoperative, intraoperative and postoperative care of vascular surgical patients.
2. Correlate underlying pathophysiology of vascular diseases with direct patient management.

Methods of Evaluation: Students will be evaluated by the vascular surgery faculty and involved housestaff on their daily activities based upon demonstrated medical knowledge, clinical skills, interpersonal/communication skills and professional qualities.

Preferred Dates: Available throughout the academic year

Site/s:
- Westchester Medical Center, Valhalla, NY 10595

Elective Code: SRGM 5116-WMCRM
Section: Urology

Department: Urology

Name of Elective: Urology

Course Description: The four-week Urology elective is offered to medical students who are considering Urology as a career. During the elective, the student is expected to work as part of the ‘team’ with the attendings, Chief Resident, Urology Fellow, and 2-3 urology residents and the Nurse Practitioner. The student will participate in all activities including resident rounds in the morning, attending rounds, scrub in the Operating Room cases, see patients on consultation on the floor and the E.R. with the residents, and evening sign-out rounds. All activities of the student during the rotation are directly supervised by the residents and attendings.

The student is expected to read the latest edition of the Smith’s Textbook of Urology, and attend Grand Rounds Conferences as scheduled. All students are expected to make a Grand Rounds style presentation during the elective on a topic assigned by the Chief Resident or the attending.

Goals & Objectives: By the end of the elective the student should be able to:
1. Recognize the approach to the preoperative, intraoperative and postoperative care of patients with urologic disorders
2. Correlate underlying pathophysiology of urologic with direct patient management.

Methods of Evaluation: Students are closely supervised by attendings and residents, attend rounds, clinics, do inpatient consultations and participate in conferences and evaluated on his/her demonstrated medical knowledge, clinical skills, interpersonal/communication skills, and professionalism.

Preferred Dates: Available throughout academic year

Site/s:

- Westchester Medical Center, Valhalla, NY 10595
  
  Elective Code: URLM 5101-WMCRM
  
  Available: Throughout the academic year

*Fourth year students who are participating in the Urology Match in January should do their electives before November.

- Metropolitan Hospital, NY, NY
  
  Elective Code: URLM 5101-METHM
  
  Available: Throughout the academic year
SECTION: NON-DEPARTMENTAL-GLOBAL HEALTH

Department: International Advisement

Name of Elective: International elective in Hungary; Semmelweis University Faculty of Medicine** Open to NYMC students only

Course Description: Semmelweis University Faculty of Medicine, located in the city of Budapest, Hungary, has a more than 230 year old tradition of academic excellence and commitment to the education of physicians. The University hospitals have 2,100 beds and admit 108,000 patients each year. The outpatient departments care for about 1,800,000 patients annually. The Faculty of Medicine offers Hungarian, German and English language instruction. Proficiency in Hungarian is not required as New York Medical College students typically enroll in electives through the English language program.

Students may arrange electives in many clinical areas including: ambulatory care, anesthesiology, community and preventive medicine, dermatology, infectious diseases, medicine, neurology, obstetrics and gynecology, pediatrics, psychiatry, radiology, rehabilitation medicine, surgery and various medical and surgical subspecialties. Each elective will include participation in rounds, lectures, case presentations and clinics.

Goals and Objectives:
Goals: This international elective has the goal of expose students to the unique aspects of the practice of medicine outside of the United States.

Objectives: By the end of this clinical experience students will be able to reflect upon the unique aspects of the practice of medicine outside of the United States, including health system organization, health system financing and resource constraints, ethical challenges, vulnerable populations, working in a cross-cultural context, health system priorities and infectious diseases, and barriers to health care.

Methods of Evaluation: Students will be evaluated by faculty based upon demonstrated medical knowledge, clinical skills, interpersonal/communication skills and professional qualities.

Site/s:
- Semmelweis University of Medicine, Budapest, Hungary
  - Contact Information: Elizabeth Ward
  - Tel: 914- 594-4846  e-mail: elizabeth_ward@nymc.edu
  - Elective Time: Four weeks
  - Preferred Dates: Available throughout the academic year; preferable month are February-April.
SECTION: NON-DEPARTMENTAL-GLOBAL HEALTH

Department: International Advisement

Name of Elective: **International elective in South Korea**; Catholic University of Korea School of Medicine, Seoul, Korea*Open to NYMC students only*

**Course Description:** The School of Medicine of the Catholic University of Korea has eight attached hospitals and two affiliated hospitals, including Seoul St. Mary’s Hospital. Students will have the opportunity to experience medicine and health care in this large urban medical complex. The elective will involve active participation in rounds, lectures, case presentations and clinics. Emphasis will be based on practical clinical experience. Electives are available in all specialty areas, including cardiology, internal medicine, obstetrics and gynecology, pediatrics, plastic surgery, pulmonary medicine and radiology. New York Medical College students may request housing in the University dormitories.

**Requirements:** *Proficiency in Korean language*

**Goals and Objectives:**
**Goals:** This international elective has the goal of expose students to the unique aspects of the practice of medicine outside of the United States.

**Objectives:** By the end of this clinical experience students will be able to reflect upon the unique aspects of the practice of medicine outside of the United States, including health system organization, health system financing and resource constraints, ethical challenges, vulnerable populations, working in a cross-cultural context, health system priorities and infectious diseases, and barriers to health care.

**Methods of Evaluation:** Students will be evaluated by faculty based upon demonstrated medical knowledge, clinical skills, interpersonal/communication skills and professional qualities.

**Site/s:**
- Catholic University Medical College, Seoul, Korea
  - **Contact Information:** Elizabeth Ward
  - Tel: 914-594-4846 e-mail: elizabeth_ward@nymc.edu
  - **Elective Time:** Four weeks
  - **Preferred Dates:** Available throughout the academic year; preferable month are February-April.
SECTION: NON-DEPARTMENTAL-GLOBAL HEALTH

Department: International Advisement

Name of Elective: International elective in Japan; Tokai University School of Medicine**Open to NYMC students only

Course Description: During this elective students will have the opportunity to experience medicine and health care in Tokai University School of Medicine. The elective will involve participation in rounds, lectures, case presentations, and clinics. Electives are available in all specialty areas including cardiology, dermatology, emergency medicine with ambulance service, internal medicine, neurology, ophthalmology, pediatrics and radiology. An additional weekly lecture on East Asian medicine and acupuncture is often offered upon request.

**Proficiency in Japanese is not required, but self-study through tapes and books is desirable.

Tokai University provides housing in its dormitories to visiting New York Medical College students free of charge.

Goals and Objectives:

Goals: This international elective has the goal of expose students to the unique aspects of the practice of medicine outside of the United States.

Objectives: By the end of this clinical experience students will be able to reflect upon the unique aspects of the practice of medicine outside of the United States, including health system organization, health system financing and resource constraints, ethical challenges, vulnerable populations, working in a cross-cultural context, health system priorities and infectious diseases, and barriers to health care.

Methods of Evaluation: Students will be evaluated by faculty based upon demonstrated medical knowledge, clinical skills, interpersonal/communication skills and professional qualities.

Site/s:

- Tokai University School of Medicine, Kanagawa, Japan
  - Tel: 914-594-4846 e-mail: elizabeth_ward@nymc.edu
  - Elective Time: Four weeks
  - Preferred Dates: Available throughout the academic year; preferable month are February-April.
Course Description: The program for visiting international medical students at the Ruth and Bruce Rappaport Faculty of Medicine, Technion-Israel Institute of Technology in Haifa, Israel, was created to encourage medical students from different countries to come to Israel to participate in its internationally recognized health care system and to experience Israel. The program offers clerkships year round in most fields of clinical medicine in any of the Technion-affiliated teaching hospitals in greater Haifa (Rambam Medical Center, Bnei-Zion Medical Center and Carmel Hospital) as well as others in northern Israel such as Hillel Yafe Medical Center in Hadera, Ha-emek Medical Center in Afula, Western Galilee Hospital in Nahariyah, Ziv Medical Center in Tzfat and Poriya Medical Center in Tiberias. Students will participate five days a week (Saturday-Thursday) in the daily workings of the department including going on rounds with the staff, bedside teaching in the in-patient wards, ambulatory care clinic, conferences and seminars. **Instruction is in English. Knowledge of Hebrew is not required.

The Technion does not charge tuition for the international visiting medical student program. However there is a mandatory $220 registration fee. Students will be considered for Technion dormitory housing at a modest fee on a space available basis. There is a greater availability of rooms in the summer. The Faculty of Medicine organizes tours around Israel and social evenings with Israeli students during the summer months.

There is a United States Department of State Travel Warning in effect for Israel. Students participating in the Technion elective will be required to sign a travel waiver acknowledging that they have read the Travel Warning and recognize security risks in Israel.

Goals and Objectives:
Goals: This international elective has the goal of expose students to the unique aspects of the practice of medicine outside of the United States.

Objectives: By the end of this clinical experience students will be able to reflect upon the unique aspects of the practice of medicine outside of the United States, including health system organization, health system financing and resource constraints, ethical challenges, vulnerable populations, working in a cross-cultural context, health system priorities and infectious diseases, and barriers to health care.

Methods of Evaluation: Students will be evaluated by faculty based upon demonstrated medical knowledge, clinical skills, interpersonal/ communication skills and professional qualities.
Site/s:
- Technion – Israel Institute of Technology; Haifa, Israel

Contact Information: Elizabeth Ward
  - Tel: 914-594-4846 · e-mail: elizabeth_ward@nymc.edu
  - Elective Time: Four weeks
  - Preferred Dates: Available throughout the academic year; preferable month are February-April.
COURSE DESCRIPTION:
This course is an unprecedented opportunity to analyze health policy with the aim of developing physicians who are more aware of our country’s complex healthcare system, its current ethical dilemmas, and the physician’s role as a provider and patient advocate. The elective was designed as an augmentation of extracurricular roundtable discussions on health policy and reform that have been established by current first, second, and third year students in collaboration with Dr. Joseph T. English, Chairman of Psychiatry.

The intensive nature of this course, due to frequent meetings and lack of concurrent academic responsibilities, will allow students to continue their exploration of health policy with a special focus on the current structure, strengths, and weaknesses of various health care systems as well as imminent changes to health care financing and provision in the United States. Students will debate current issues and philosophical arguments and defend ethically sound solutions to the health care crisis in the United States. They will also explore the impact of these solutions on physicians as well as the role of physicians in health care reform. At the end of the course, a final essay creates an opportunity for self-motivated research and will allow students to focus on a specific aspect of health policy and reform.

Goals & Objectives:
1. Provide an opportunity for both group-facilitated and self-directed considerations of health policy and medical ethics surrounding healthcare provision and reform.
2. Continue the intellectual stimulation and development fostered by prior Roundtable discussions.
3. Address Educational Competencies
   - Practicing in a Complex Healthcare System
     - The proposed course is focused on examining the intricacies of the American healthcare system and will emphasize critical thinking regarding the role of future practitioners in a changing medical industry. The course will help identify the infrastructures which allow patients access to care such as Medicare, Medicaid, HMOs, PPOs, etc. It will also provide an opportunity for students to discuss possible flaws and improvements that could be made on a personal and national level.
     - The economics of healthcare will be reviewed in order for students to appreciate the importance of cost effective and efficient medicine. Students will also be exposed to the laws that govern our practices and how they correlate with our ethical principles.
   - Continuous Personal Learning and Development
     - Passion for Learning: Students will engage in a significant amount of self-directed learning, which will serve as fuel for the group discourse.
- Students will understand the need for lifelong learning and peer dialogue in this area of medicine that continues evolve.
- Commitment to self-improvement and responsiveness to feedback: A major component of the elective will be feedback from other members of the group as well as from the faculty on the quality of group presentation and paper writing. Areas of assessment will include appropriateness of research, understanding of the issues, synthesis of arguments and facilitation of group discussion.

- **Interpersonal and Communication Skills**
  - Students are expected to effectively communicate and establish respectful working relationships with healthcare colleagues who may have very different opinions. Students will practice articulating complex ideas through small group discussions and the final assignment will be an exercise in concise writing.

- **Professionalism**
  - The proposed course will improve the professional capacity of students by easing the transition from future doctor to practicing doctor. Students will be more capable of respectful and intelligent conversations about healthcare with both colleagues and patients.

**Attendance Policy**
All scheduled events are **REQUIRED** for all students. Absence excusal is at the discretion of the course director.

**Methods of evaluation: Credit/ No Credit**

1. Students will be evaluated by the course director on preparation, participation, and content contributed to discussions. This will define 50% of the final grade.
2. Students will each give one formal presentation. The presentations will be graded by the faculty moderator for content, delivery, and preparation. This will define 20% of the final grade.
3. Students will be expected to give one informal presentation. This will not be graded as a faculty member will not be present, but is required to the pass the course.
4. Final Written Assignment– a well-written, concise essay on a relevant topic of personal interest, supported by assigned texts and outside sources. Rubric will be designed to consider Content, Use of Supporting Materials, and Writing Abilities. This will define 30% of the final grade.
   - Topics to be considered include but are not limited to: Healthcare Economics, Universal Healthcare, Free-Market Healthcare, Research Economics, and Medical Education on Healthcare.
   - Topic and supporting texts will be discussed with the course director prior to actual writing.
   - Student essays will be organized into a final course journal so that all participants will benefit from the research of their peers.

Students will be graded Pass/Fail due to the exploratory nature of the course and the high level of collaboration expected among participants.
Open to NYMC students only

Site/s:

- Westchester Medical Center, Valhalla, NY
  Elective Code: PSYC 5118-999
  Preferred Dates: January 4 – January 31, 2017
Course Description: Teaching is a critical skill for all physicians, and is a satisfying way to solidify your own knowledge and to give back to your medical school via mentorship and education of your junior student peers. Please consider taking the LEARNING TO TEACH elective this year to build your teaching skills and become a valuable contributor to the education of the junior students. In this elective you will learn not just how to teach, but why your excellent teachers do the things they do. This will give you terrific skills to take to your internship and talk to your program directors about during your residency interviews.

Objectives: By the end of this course you will be able to:
1. Give a great lecture/presentation (and you will deliver one)
2. Demonstrate effective clinical teaching: one to one; bedside; in a busy clinic
3. Apply tutoring principles: diagnosing the learner and learning how to help them
4. Demonstrate how to give effective feedback
5. Demonstrate how to lead a small group
6. Explain how one’s learning style (yours and your learners) influence learning

During the preliminary three day “boot camp” (two date choices shown below), students are required to attend all core lectures, prepare and deliver a 10 minute presentation of their choice (non-medical or medical) on their last day of “boot camp”. During the academic year students will then complete the required teaching hours, and complete a final reflective paper based on their teaching experiences.

Teaching Requirements: Students will be required to teach at least 50 hours spread out over the academic year. They can elect to teach in a variety of settings including the clinical skills and basic science courses; one to one tutoring; curriculum development; case based learning; observed h & p’s etc. You will be asked to teach in a variety of settings that demonstrate your abilities to teach in several domains. Students must complete at least half of teaching requirements by December 15th of academic year. The remainder of teaching requirements must be completed no later than March 15th of the academic year.

Methods of Evaluation: Credit/ No Credit
Students will be evaluated on multiple levels:
1. Course director observation of presentation skills
2. Peer evaluation of presentation skills
3. Student evaluations of their teaching skills in small group
4. Self-assessment/ reflection paper

Site/s: NYMC
Elective Code: UMDM 5107-NYMCM
Boot Camp 1: June 22 (afternoon start) to June 27th, 2016
Boot Camp 2: July 18th to July 21st, 2016
SECTION: NON-DEPARTMENTAL

Department: Office of Undergraduate Medical Education

Name: MEDICAL SIMULATION**Open to NYMC students ONLY

Course Description: The medical simulation elective will offer the opportunity to learn, develop, and facilitate various methodologies of simulation and clinical skills assessments.

REFERENCES AND RESOURCES will be provided to students at the beginning of the elective and posted to the curriculum management system.

Goals & Objectives:
By the end of this course students will be able to:
1. Summarize the benefits of using standardized patients and simulation to teach medical topics
2. Develop and create standardized patient cases and checklists for use in the medical education program.
3. Train and manage a team of standardized patients.
4. Develop and execute advanced feedback giving to learners and standardized patient.
5. Develop a concise checklist for an exercise using a task trainer or simulation case.
6. Recognize the importance of “The Debrief” as part of a simulation or standardized patient exercise.
7. Demonstrate the ability to manage a simulation case using the SimMan 3G medical simulator.
8. Participants will identify and inventory the various equipment within a SimMan 3G simulation.

Methods of Evaluation: Students will be evaluated by faculty on their demonstrated clinical skills, medical knowledge, professionalism, and interpersonal/communication skills as it relates to the objectives of the elective.

Site/s:
- NYMC-Clinical Skills Center
  Elective Code: UMDM 5111-NYMC
  o Contact Information: Katharine Yamulla, Director of Clinical Skills and Simulation Center
  o Tel: 914-594-1734  katharine_yamulla@nymc.edu
  o Elective time: 4 weeks: 4 (Credit / No Credit)
  o Preferred Dates: Two sessions (offered twice) core material:
  o VSAS: No **Only open to NYMC students
SECTION: NON-DEPARTMENTAL

Department: Office of Undergraduate Medical Education

Name of Elective: Canopy Medical Spanish™ Curriculum** Open to NYMC students only

Course Description: The Canopy Medical Spanish Curriculum includes 3 levels with 12 lessons each. This three-level syllabus is based on curricula from the American Association of Medical Colleges and reviewed by an expert panel comprised of linguists and Spanish-speaking physicians. Each level covers common specialties such as Cardiology and Neurology, and contains 2 subspecialties per level

- **Level 1:** Level one lays the groundwork and offers foundational vocabulary, grammar and communication skills for the most common types of medical encounters
- **Level 2:** Level two offers more specialized knowledge for individual medical fields
- **Level 3:** Level three expands to patient education, counseling and more in-depth patient-provider interactions

Course Objectives: By the end of this course, students should be able to

1. Student will be able to converse with people in Spanish on topics in healthcare and medicine using basic medical terminology.
2. Students will be able to articulate and respond to basic patient concerns.
3. Students will be able to conduct basic Health of Present Illness (HPI) assessments in Spanish.
4. Students will gain some exposure to cultural and social factors that influence the practitioner-patient communication with Latino peoples and immigrants to the United States.

Elective Requirements:

1. Complete all three levels of Medical Spanish Curriculum, including all on-line assessments with a passing score of above 70% by March 1st of the academic year.
2. Complete course surveys and evaluations

Methods of Evaluation: Credit/No Credit

To receive credits, students must complete all elective requirements by March 1st of academic year

Site/s:
- NYMC—on-line course

Elective Code: SPAN 5102-NYMCM
SECTION: NON-DEPARTMENTAL

Department: Medical Education

Name of Elective: MULTICULTURALISM IN CLINICAL PRACTICE **Open to NYMC students only

Course Description: This cultural competency elective is designed to introduce students to cultural characteristics that can influence the delivery of health care and ultimately improve the level of student’s cultural humility and their physician-patient therapeutic relationships. Through a series of assigned readings, online cultural competency training program, and written assignments the student will achieve the elective’s goals and objectives.

Goals: To enhance the student’s awareness of multiculturalism in health care and the impact of cultural diversity on the physician-patient relationship and therapeutic patient healthcare outcomes.

Objectives: Through a series of assigned readings, online cultural competency training program and written assignments the student will be able to:

1. Reflect on your own individual culture and identity.
2. Reflect on ways in which culture impacts life.
3. Develop an increase awareness of the implicit and explicit cultural assumptions that condition the understanding of disease, illness, and health.
4. Develop an awareness of the ways a physician's culture and perceptions may impact their ability to provide culturally competent medical care.
5. Define issues related to Cultural Competency in medical practice.
6. Identify the sources of conflict between the patient’s and the physician’s concepts of disease, illness, and health.
7. Increase awareness of ways to manage the discrepancies between the physician’s and the patient’s approach to health care.
8. Devise strategies to enhance skills toward the provision of care in a culturally competent clinical practice.

Method of Evaluation: Student performance for this four-week elective will be determined by the timely completion and quality of all assignments. The grading for this elective is based on Credit/No Credit. The Course Director to post elective study guide on the DCDB at the beginning of the academic year. Student elective evaluation will be made available in March.

Preferred Dates: 1. Four- elective week credit from July through February.
2. All assignments must be completed and turned in by March 1, 2016.

The course director will post this independent elective study guide on the learning management system at the beginning of the academic year. Communication with the course director via email.

Site(s):

- New York Medical College, Valhalla, NY 10595
  Elective Code: MCLM 5101-NYMC

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SECTION: NON-DEPARTMENTAL

Department: Medical Education

Name of Elective:  PATIENT SAFETY **Open to NYMC students only

Course Description/ Rationale and Goals:  In the Institute of Medicine’s landmark report “To Err Is Human” (1999), it was found that 98,000 Americans die unnecessarily each year from preventable medical errors. Although there have been tremendous efforts made by healthcare organizations nationwide, patient safety remains a top public health problem. A solution to this problem is outlined in “Unmet Needs: Teaching Physicians to Provide Safe Patient Care” (National Patient Safety Foundation, 2010). In this report, NPSF calls for restructuring medical education to help students develop the skills, behaviors and attitudes needed to make improvements in patient safety. To answer this call for positive change, Quality Improvement and Patient Safety Seminar was created. The goals of the seminar are to build knowledge and to advocate for quality improvement and patient safety in healthcare.

This course will be a fully self-study course to provide you with a background in patient safety. The course uses the Institute for Healthcare Improvement (ihi.org) open school patient safety lectures and web site. This program is setup to make students more adept to critically analyzing and resolving patient safety related issues that will undoubtedly face him/ her during residency.

Course Objectives: By the end of this course, students should be able to

1. Understand the fundamentals of leadership and its role in medical practice
2. Recognize the fundamentals of patient safety
3. Understand the human factor and its relationship to patient safety
4. Develop strong teamwork and communication strategies
5. Understand how to measure quality improvement in a patient safety environment

Elective Requirements:

1. Complete designated IHI Open School courses to receive a basic certificate Course materials: http://www.ihi.org/IHI/Programs/IHIOpenSchool/
2. Complete Patient Safety Paper: Identifying and Remediating Patient Safety Vulnerabilities in the Delivery of Care*
   a. For this assignment, students are asked to follow a patient in the clinical setting from admission to discharge. Students should then perform an analysis of patient safety vulnerabilities which could take place or have taken place throughout the course of hospitalization, investigate the factors and processes leading to each patient safety vulnerability, and consider interventions which should be installed or already in place to minimize the opportunity for errors. In addition, students should reflect on patient safety issues physicians face daily, and how the experience of completing this assignment help them ensure a safe delivery of care in future practices.
   b. The paper should be 8-10 pages in length and is due no later than
      i. December 15, 2015 for FALL ENROLLMENT
ii. *March 1, 2016 for SPRING ENROLLMENT*

      http://www.ihi.org/education/IHIOpenSchool/resources/Pages/Activities/ExerciseHumanFactors.aspx

3. Complete course surveys and evaluations

**Methods of Evaluation:** Credit/No Credit

**Site/s:**

- New York Medical College, Valhalla, NY 10595
  **Elective Code:** UMDM 5103-NYMCM
  **Max enrollment:** 20 students/ block
NAME OF ELECTIVE: ETHICAL AND CLINICAL ISSUES IN END-OF-LIFE CARE

Department/Division: Undergraduate Medical Education

Course Directors: Ira Bedzow, Ph.D.; Pamela Ludmer, M.D. **Open to NYMC students ONLY

Course Description/Goals: This course will be a fully interactive online course composed of eight modules encompassing Futility, the Right to Refuse Treatment, Death with Dignity, Palliative Care, Pediatric End-of-Life Care, and Severe Neurologic Impairment. Each module will have presentations, readings, asynchronous discussion boards, and assignments. While the readings and presentations can be done at any time, active work will be required over an eight-week period, from November through December (Blocks 5 and 6), coinciding with peak interview season. This work will be in the form of weekly discussion boards with faculty and students, as well as weekly written assignments. This is course can be taken alone or concurrent with another rotation.

Goals:

1. Identify why and when ethical dilemmas arise in end-of-life care
2. Discuss current legal and ethical issues around end-of-life care
3. Consider how the changing legal, social, and medical environments affect end-of-life care
4. Reflect on one’s own personal attitudes on end-of-life care and how they may impact relationships with patients
5. Value the impact of ethics on medical decision-making at the end of life

Objectives: By the end of this elective students will be able to:

1. Appreciate the general challenges to providing ethical end-of-life care
2. Recognize and accept situations in which medical treatment at the end of life is futile/non-beneficent
3. Recognize when a patient has the right to refuse treatment and the ethical issues associated with that right
4. Assess when a patient will benefit from palliative care and/or hospice care
5. Discuss the ethical, legal, medical, and social issues surrounding death with dignity and its impact on the medical profession
6. Apply ethical principles to the care of patients with significant neurologic impairment
7. Compare the ethical dilemmas at the end of life in pediatric patients to those of adult patients
8. Examine the impact of one’s own, as well as patients’ gender, race, religious, and cultural background when faced with ethical dilemmas at the end of life

Targeted students: This elective is geared towards any student who will be caring for patients at the end of life, as well as students who are interested in medical ethics in general and those who intend to pursue a medical ethics concentration. Content related to pediatrics, neurology, surgery, and emergency medicine is included in this course.
Account for how hours will be apportioned: Students are expected to watch weekly PowerPoint presentations, completely weekly assigned readings, actively participate in weekly or twice weekly discussion boards, and completely weekly written assignments. Each module is expected to take 10-15 hours, with additional time needed for the final paper.

Methods of Student Assessment: Students will be assessed based on active participation in discussions, weekly written assignments, and a final paper.

Elective Duration: 8 weeks

Maximum # of Students per block: 14

Available Dates November and December, Blocks 5 and 6

Elective Code: ETHM 5101-NYMCM
AFFILIATED HOSPITALS

Brookdale University Hospital
555 Rockaway Pkwy
New York, NY 11212
(718) 240-5000

Bronx Lebanon Hospital
1650 Grand Concourse
Bronx, NY 10457
817-590-1800

Good Samaritan Medical Center
255 Lafayette Ave.
Suffern, NY 10901

Hoboken Univ. Med. Center
308 Country Road 675
Hoboken, NJ 07030

Keller Army Community Hospital
900 Washington Road
West Point, NY 10996
845-938-5169

Lenox Hill Hospital
100 East 77th Street
NY, NY 10075
(212) 434-2000

Metropolitan Hospital Center
1901 First Avenue
New York, NY 10029
(212) 423-6262

Richmond University Medical Center
355 Bard Avenue
Staten Island, NY 10310
(718) 876-1234

St. Joseph’s Hospital (NY)
127 South Broadway
Yonkers, NY 10701
914-378-7000

St. Joseph’s Hospital (NJ)
703 Main Street
Paterson, NJ 07503
(973) 754-2000

Terence Cardinal Cooke Health Center
1249 Fifth Avenue
New York, NY 10029
212-360-1000

Veteran’s Administration Hospital
Castle Point, NY 12511
(914) 831-2000

Veteran’s Administration Hospital
Rte.9A-P.O., Box 100
Montrose, NY 10548

Westchester Medical Center
Valhalla, NY 10595
(914) 493-7000
This form should be submitted as a signed PDF to the Office of Medical Education, ElectivesYR4@nymc.edu two months before the start date to allow for revisions and for approval. Please include supporting documentation from the site stating that they have accepted you as a student. Once approved, we will forward this form to Student Affairs. You will then receive confirmation via email that the elective has been approved and will be told to submit an Add/Drop Form through ePortfolio. All of the above must be completed one month before the start date of the elective.

STUDENT NAME: ___________________________________________  ID #: __________________

NAME OF ELECTIVE (please print): ______________________________________________________

DATE: ___________________  PROPOSED ELECTIVE DATES AND BLOCK: ______________________

FACULTY SPONSOR and TITLE: __________________________________________________________

DEPARTMENT: ___________________________  SITE: ______________________________________

Overall Goals of Elective:

Specific Objectives: (Please list at least four. For example, “By the end of the month, the student will be able to identify obstructive airway disease and restrictive airway disease on pulmonary function testing.”)

Schedule of Activities: (Please indicate hours and all activities planned during a week, e.g., direct patient care, observing procedures, clinical rounding in the hospital, outpatient clinic hours, conferences, etc. This should add up to 40 hours per week.)

Approval

FACULTY SPONSOR: ___________________________________________  DATE:____________________

DIRECTOR OF FOURTH YEAR CURRICULUM: ___________________________  DATE:____________________
**Tips for Writing Objectives**

Keep in mind the mnemonic SMART for writing objectives – they should be Specific, Measurable, Attainable, Realistic, and Time-phased. Using Bloom’s Taxonomy, which lists appropriate action verbs in order of difficulty, may be helpful in generating your own objectives. For example:

<table>
<thead>
<tr>
<th>Knowledge</th>
<th>Comprehension</th>
<th>Application</th>
<th>Analysis</th>
<th>Synthesis</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Define</td>
<td>Compare</td>
<td>Apply</td>
<td>Analyze</td>
<td>Arrange</td>
<td>Appraise</td>
</tr>
<tr>
<td>Describe</td>
<td>Contrast</td>
<td>Develop</td>
<td>Appraise</td>
<td>Combine</td>
<td>Argue</td>
</tr>
<tr>
<td>Identify</td>
<td>Differentiate</td>
<td>Examine</td>
<td>Criticize</td>
<td>Design</td>
<td>Conclude</td>
</tr>
<tr>
<td>Indicate</td>
<td>Discuss</td>
<td>Illustrate</td>
<td>Debate</td>
<td>Formulate</td>
<td>Evaluate</td>
</tr>
<tr>
<td>Record</td>
<td>Distinguish</td>
<td>Interpret</td>
<td>Discriminate</td>
<td>Generate</td>
<td>Justify</td>
</tr>
<tr>
<td>State</td>
<td>Explain</td>
<td>Operate</td>
<td>Experiment</td>
<td>Organize</td>
<td>Prioritize</td>
</tr>
<tr>
<td>Summarize</td>
<td>Interpret</td>
<td>Utilize</td>
<td>Research</td>
<td>Prepare</td>
<td>Recommend</td>
</tr>
<tr>
<td>Write</td>
<td>Recognize</td>
<td></td>
<td></td>
<td>Propose</td>
<td>Revise</td>
</tr>
</tbody>
</table>

Words such as “understand”, “know”, and “learn” are vague and generally difficult measure. They should not be used when writing objectives.
INTERNATIONAL ELECTIVE APPROVAL PROCEDURE and CHECKLIST

Fourth year medical students must comply with all components of this checklist to be eligible to receive fourth year elective credits towards fulfills their M.D. degree requirements. Students should start planning for an international experience at a minimum of SIX MONTHS prior to the start of their elective, and preferably ONE YEAR in advance.

Programs eligible for elective credit include:

- NYMC sponsored international exchange programs
  - Tokai University School of Medicine in Japan
  - The Catholic University of Korea in Seoul
  - Semmelweis University in Hungary
  - Technion-Israel Institute of Technology, Israel
- Child Family Health International sponsored programs
- Himalayan Health Exchange sponsored programs
- Unite for Sight sponsored programs
- Global Health Learning Opportunities (AAMC)
- Global Health Programs sponsored by an LCME-accredited medical school
- Other global electives sponsored by established medical schools in developed countries (e.g. Australia, Canada, Italy, etc.)

General information about International Electives:

- Final elective approval will be given once all of the requirements on this checklist have been met.
- Global Health Electives will be graded as Credit/Non-Credit.
- Upon completion of the elective, a NYMC Fourth Year Elective Evaluation must be completed by the elective supervisor and submitted to evals@nymc.edu or returned to the Office of Student Affairs in a sealed envelope by the student.
- Students are required to complete an end-of-course evaluation on LCMS+ at the completion of their elective.

6-12 months Before Planned Departure

1. The first step is to contact the program directly. If the program accepts you, submit a letter from the host institution to the Senior Associate Dean for Student Affairs which includes:
   a. Supervisor’s name, title, and contact information
   b. Indication of how and by whom you will be supervised at all times
   c. Assurance that supervisor will be responsible for completing your evaluation
2. Check “Current Travel Warnings” issued by the U.S. State Department. If there is a travel warning, you will not be approved to go. [http://travel.state.gov/content/passports/en/alertswarnings.html](http://travel.state.gov/content/passports/en/alertswarnings.html)
3. Review Consular Information Sheet for the country you will be visiting, paying attention to crime and security. [http://travel.state.gov/content/passports/en/country.html](http://travel.state.gov/content/passports/en/country.html)
4. Complete the Elective Approval Form, including a detailed course description, objectives, and schedule of activities adding up to 40 hours/week. Submit it to the Director of the Fourth Year Curriculum (ElectivesYR4@nymc.edu) in the Office of UME, along with the letter from the host institution indicating who will be supervising and evaluating you.
5. Make sure your passport is up to date and check out visa entry/exit requirements for your destination. [http://www.state.gov/travel/](http://www.state.gov/travel/)
6. Make an appointment with Elizabeth Ward, NYMC’s International Student and Scholar Advisor for clearance of international travel plans.

### 3-6 Months Before Planned Departure

1. Complete the Johns Hopkins online course “Ethical Challenges in Short-Term Global Health Training” at [www.ethicsandglobalhealth.org/](http://www.ethicsandglobalhealth.org/). Print out certificates of completion for the 10 cases and submit the certificates to the Office of Student Affairs.
2. Check with the Director of the Fourth Year Curriculum to see if your elective has been approved.
3. Review the CDC Traveler’s Health webpage to see if you need immunizations, malaria prophylaxis, or other pre-departure health requirements. [http://wwwnc.cdc.gov/travel](http://wwwnc.cdc.gov/travel)
4. Make an appointment with Health Services to review the requirements and to arrange or receive appropriate vaccinations and prophylaxis. Appointments should be made at least three months before departure.
   i. Most vaccines can be administered at Health Services. Vaccines that are not administered at Health Services include but are not limited to Yellow Fever vaccination and Japanese Encephalitis vaccine. In such cases the student is referred to a Travelers Health Service.

### 1 Week - 3 Months Before Planned Departure

1. Research airfares.
2. Obtain your visa, if needed. [http://www.state.gov/travel](http://www.state.gov/travel)
3. Register your travel with the US Department of State. [https://step.state.gov/step/](https://step.state.gov/step/)
4. Determine where you will access emergency/urgent care while abroad (this information should be available from your host institution).
5. Obtain Study Abroad Medical and Travel Insurance (in case of illness, emergency, or evacuation needs): We recommend International SOS. [https://buymembership.internationalsos.com/](https://buymembership.internationalsos.com/)
6. Submit copies of your passport, updated emergency contact information and contact information for you while abroad to the Office of Student Affairs.
7. Print out the NYMC Blood and Body Fluid (Needlestick) Policy Card and bring it with you.
8. Make an appointment with an Associate Dean of Student Affairs to verify that all requirements have been completed.

### During

1. In case of emergency while you are away, use the MSADean911@nymc.edu to contact an Associate Dean of Student Affairs. This email address is tied to the Associate Deans for Student Affairs’ cell phones via text messaging.
2. Remind your supervisor that he/she needs to complete a NYMC Fourth Year Elective Evaluation. It can be submitted to [evals@nymc.edu](mailto:evals@nymc.edu) or returned to the Office of Student Affairs in a sealed envelope by the student.

### 1-2 Weeks After

1. Upon return complete a global health elective evaluation form.
2. Verify that your evaluation form has been submitted to either the Office of Student Affairs or the Registrar’s Office.
NON-CATALOG EXTRAMURAL ELECTIVE PROCESS

During the latter portion of third year, all students are expected to meet with their House Advisory Deans to discuss 4th year planning, including their elective choices.

To Apply to the Host Institution:

1. If the institution is not a VSAS school, call or e-mail the institution at which the elective is offered to obtain an application. The AAMC Extramural Electives Compendium lists all 134 medical schools and their contact information for doing electives at their institution and is available online.

2. Email MSASStaff@nymc.edu, the Office of Student Affairs for a letter of good standing, which includes documentation of the following: transcript, required infection control certification, HIPAA certification, BLS certification, and evidence of malpractice coverage.

3. Read your application carefully as some schools require more documentation than others. In particular, find out if you are required to have additional vaccinations or other health care requirements. Follow any other instructions and obtain any additional documentation as requested in the visiting student packet from the institution.

To Request Approval for Elective Credit

1. Once you receive approval from the host institution in writing, you need to receive approval from the Director of the Fourth Year Curriculum in the Office of UME to receive NYMC credit. Fill out an Elective Approval Form and submit it to ElectivesYR4@nymc.edu preferably TWO MONTHS before your planned elective date. This application requires:
   - Detailed course description
   - Specific learning objectives
   - Schedule of activities to account for approximately 40 hours/week of work
   - Faculty sponsor name, title, and signature

2. Fill out the form in its entirety, including faculty or institutional information that indicates where the Office of the Registrar should send your grade/evaluation form and attach the letter of acceptance from the institution.

3. Once approval is given, it will be signed by the Director of the Fourth Year Curriculum. You will be notified of its approval.

4. At that point, make an appointment with your House Advisory Dean or an Associate Dean of Student Affairs to complete Page 2 of this document. Once that is completed and approved by Student Affairs, you can fill out an Add Form through e-Portfolio.
Please review the following with your House Advisory Dean or an Associate Dean of Student Affairs:

Have you received approval from the Office of UME for your extramural elective?

Have you located and read the Visiting Student Policy for your site?

Do you know how the host institution handles exposures to blood or body fluids, particularly in the case of needlesticks?

Where will you access care in the event an urgent or emergent health care need? Please write the address:

Any potential risks to the health and safety of patients, students, and the community? If yes, please describe.

Any possibility of natural disasters, political instability, and exposure to disease? If yes, please describe.

Any need for additional preparation prior to, support during, and follow-up after the elective? If yes, please describe.

Any potential challenges to the code of medical ethics adopted by NYMC School of Medicine? If yes, please describe the challenge and how you will manage it.

Student Signature:________________________________  Dean Signature:________________________________