



# Medical Student Elective Directory

2011-2012

Office of Student Affairs  
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**ANATOMIC PATHOLOGY  
ANESTHESIA****ANATOMIC PATHOLOGY**

COURSE DIRECTOR:	Dennis Cornfield, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Limited Availability

Students will observe and participate in the daily activities in surgical pathology and autopsy pathology, including forensic pathology. Practical tissue dissection, frozen section diagnosis, immunocytochemistry and special techniques will be illustrated in addition to routine histopathology. Participation in conferences will be encouraged. The role of the pathologist as consultant and educator is emphasized.

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**ANESTHESIOLOGY**

COURSE DIRECTOR:	Rafael Martinez, M.D.
DURATION:	Two and Four Weeks
LOCATION:	Cedar Crest campus, 17 <sup>th</sup> & Chew Street campus, Muhlenberg campus
OFFERED:	Bi-Weekly

The student will participate in the full range of perioperative anesthetic care of patients to include preoperative evaluation and optimization, intraoperative invasive and non-invasive monitoring, administration of general anesthetic agents, performance of regional blockade and recovery and management of acute and chronic pain.

**DENTAL MEDICINE****DENTAL MEDICINE**

COURSE DIRECTOR:	Charles Incalcaterra, D.M.D.
DURATION:	Two to Four Weeks
LOCATION:	17 <sup>th</sup> & Chew Street campus Muhlenberg campus
OFFERED:	Monthly, except June and July

The student will participate with the dental residents responding to inpatient consult requests from other departments. Students will learn when it is appropriate to consult with a dentist and how to respond to consult requests from dentists. Such mutual referral is designed to prevent the occasional untoward reaction, which may occur when systemic complications of dental disease go unrecognized by the physician. Students may also observe or participate in therapy in the clinic particularly on patients who need special care due to their medical conditions. This will give the student insight into learning the systemic complications of dental disease and treatment. Part of the hands-on experience may include administration of local anesthetics and non-complicated extraction of teeth. In addition, differential diagnosis of intra-oral lesions, early detection of oral cancers, recognition of oral lesions due to the systemic administration of medications, malocclusions, oro-facial pain and various TMJ dysfunctions will be part of the clinical experience.

The student will attend seminars on oral medicine and diagnosis, preventive dentistry, dental/oral manifestations of systemic diseases, and dental management of the medically compromised patient. In addition there will be lectures on alternative and complimentary medicine to include acupuncture, clinical hypnosis, eye-movement integrations and desensitizing for phobic patients.

**EMERGENCY MEDICINE****EMERGENCY MEDICINE**

COURSE DIRECTOR:	Charles WorriLOW, M.D., FACEP
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus, 17 <sup>th</sup> & Chew Street Campus, Muhlenberg campus
OFFERED:	Monthly July to June

During this elective, the student will:

- Develop the ability to take an appropriate history and physical exam in patients presenting with diverse clinical problems relating to emergency care.
- Appreciate the importance of teamwork in caring for emergency patients in both the pre-hospital and hospital setting. This includes a one-day rotation with paramedics in the field.
- Understand the importance of triage in setting priorities for emergency care.
- Learn the proper utilization of clinical labs and x-rays as they relate to emergency care.
- Develop skills in proper "chartsmanship," case presentation and formational plan.
- Demonstrate performance of first aid and emergency procedures such as suturing, bandaging, splinting, wound and burn care. This includes a four-hour suture lab experience.
- Understand the principles of pain management in the pediatric and adult patient.
- Identify the principles of airway management and procedural sedation and analgesia.
- Articulate an expanded differential diagnosis.
- Identify strengths and weaknesses in emergency scenarios with a human patient simulator.

**FAMILY MEDICINE****FAMILY MEDICINE**

COURSE DIRECTOR:	Drew Keister, M.D.
DURATION:	Two and Four Weeks
LOCATION:	17 <sup>th</sup> & Chew Street campus Lehigh Valley Family Health Care
OFFERED:	Monthly

During this elective, the student will spend each day working with selected physicians in their offices, in the hospital, in patient homes or in nursing homes as appropriate. The student will gain experience seeing patients in a community family practice setting.

The objectives of this elective are to help the student:

- Celebrate the excitement of doing family practice.
- Develop systemic approaches to common problems.
- Appreciate the psychosocial and financial concerns that are necessary to care for the entire family unit.
- Develop rapport with a patient in an effort to facilitate adherence, patient education and lifestyle changes.
- Appreciate the principles of managing a community family practice.

**FAMILY MEDICINE****FAMILY PRACTICE SUBINTERNSHIP**

COURSE DIRECTOR:	Drew Keister, M.D.
DURATION:	Four Weeks
LOCATION:	17 <sup>th</sup> & Chew Street campus Phoebe Nursing Home Lehigh Valley Family Health Center
OFFERED:	Monthly

Students on this elective will serve as subinterns on a Family Practice service. In addition to adult hospital care, the service can include newborn and child care, birthing care and nursing home care. The student will follow his/her own patients on the hospital service participating in treatment plans, aftercare plans and family systems plans.

The goals of this elective are to help the student:

- Gain an appreciation for the types of hospitalized patients that are cared for by family physicians.
- Understand the stresses on family systems that occur during a hospitalization.
- Appreciate the importance of post-hospital care as patients return home or enter a new care environment.

**RELATIONSHIP - CENTERED FAMILY PRACTICE**

COURSE DIRECTOR:	Drew Keister, M.D.
DURATION:	Four Weeks
LOCATION:	17 <sup>th</sup> & Chew Street campus Lehigh Valley Family Medicine Residency Program
OFFERED:	Monthly

During this elective, the student will spend each day seeing patients and working closely with the residency program faculty and residents functioning as a subintern. The experience will take place in the office, hospital, community and nursing home and will demonstrate the meaning of a "community of healing." The skills and values of "Turtle Craft," our name for the practice of family medicine, will be taught. Come and see innovative education in action.

- Appreciate and experience the spirit of the residency program.
- Develop independence and refine competence in providing family practice care throughout the continuum of primary care services.
- Learn to integrate holistic health options and to use ecological thinking in the care of patients.
- Develop and improve teaching skills, both with patients and students.

**AMBULATORY MEDICINE (HIV CLINIC)**

COURSE DIRECTOR:	Margaret Hoffman-Terry, M.D.
DURATION:	Four Weeks
LOCATION:	17 <sup>th</sup> & Chew Street campus
OFFERED:	Monthly

As part of a busy ambulatory HIV clinic serving 450 HIV-infected adults, the student will:

- Learn the basics of HIV disease pathogenesis and epidemiology.
- Understand prophylaxis and treatment of opportunistic infections.
- Understand current state of knowledge of HIV drug resistance.
- Develop ability to design effective initial and salvage combination antiretroviral treatment regimens.
- Learn to manage the long-term complications of HIV and HIV therapies.

**CARDIOLOGY: ACUTE CORONARY CARE UNIT**

COURSE DIRECTOR:	Larry Jacobs, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The primary assignment is with the house officer and attending cardiologists in the Acute and Progressive Coronary Care Units. Emphasis is on the total evaluation of the patient with cardiovascular disease and active medical and surgical intervention. Experience is available in the Non-Invasive Heart Station, Cardiac Catheterization Lab and/or the Electrophysiology Lab by prior arrangement.

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**CARDIOLOGY: CONSULTATIVE**

COURSE DIRECTOR:	Larry Jacobs, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The primary assignment is with the house officer and attending cardiologists in the Cardiology Consulting Service. Emphasis is on the total evaluation of the patient with cardiovascular disease and active medical intervention. Experience is available in the Non-Invasive Heart Station, Cardiac Catheterization Lab and/or the Electrophysiology Lab by prior arrangement.

**CLINICAL NEUROLOGY**

COURSE DIRECTOR:	Jay Varrato, D.O.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus Muhlenberg campus
OFFERED:	Monthly

During this rotation, the student will:

- Develop proficiency in performing the neurologic exam.
- Be able to localize lesions within the neuraxis.
- Gain knowledge of pertinent neuropathology and neurophysiology.
- Be exposed to a variety of laboratory techniques used in evaluating the patient with a neurological disease.

**INTERNAL MEDICINE****ENDOCRINOLOGY**

COURSE DIRECTOR:	Gretchen Perilli, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly, limited availability

The rotation on the Endocrinology services involves exposure to inpatient consultations and the outpatient clinic with a senior resident and the attending endocrinology staff. The main emphasis is on clinical teaching of the pathophysiology of endocrine disorders including appropriate diagnostic tests and modes of therapy.

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**GASTROENTEROLOGY**

COURSE DIRECTOR:	Sean Lacey, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly, limited availability

This rotation combines exposure to inpatient and office consultative gastroenterology. Basic orientation is given in GI radiology, pathology and endoscopy. Training is provided in flexible sigmoidoscopy. Didactic sessions are centered on teaching rounds and selected lectures by attending physicians.

**INTERNAL MEDICINE****GENERAL INTERNAL MEDICINE**

COURSE DIRECTOR:	Stacey Smith, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus Muhlenberg campus
OFFERED:	Monthly

Students participate in the care of patients on an active Internal Medicine Service by functioning as a subintern with a senior medical resident. The student has the opportunity to participate in the care of patients with a wide range of illnesses. The degree of participation in patient management and performance of procedures is dependent on the students' abilities and interests.

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**GERIATRIC MEDICINE**

COURSE DIRECTOR:	Anne Yawman, M.D.
DURATION:	Four Weeks
LOCATION:	17 <sup>th</sup> & Chew Street campus
OFFERED:	Monthly

The geriatric rotation will offer experience to observe and manage elderly patients with a wide variety of medical conditions on an inpatient and outpatient basis. The student functions as a member of a team with a resident and attending physicians, offering care for patients in acute, ambulatory, community and long-term care settings, in order to understand the interaction of natural aging and disease as well as the techniques of assessment, therapy and management.

## HEMATOLOGY / ONCOLOGY

COURSE DIRECTOR:	Eliot Friedman, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly, limited availability

This clerkship will expose the medical student to a wide range of hematologic and oncologic disease processes during this four-week rotation. An emphasis will be made on the proper screening, pathophysiology, staging, natural history and treatment of cancer. This consultative inpatient rotation will ensure exposure to both common and uncommon hematologic problems with emphasis on the recognition, treatment and natural history of these disorders.

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## INFECTIOUS DISEASE

COURSE DIRECTOR:	Jaan Naktin, M.D.
DURATION:	Two or Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

During this experience, the student functions with a senior medical resident when on service and with Infectious Disease specialists. While predominantly consultative, the service does manage some of its own patients. Appropriate reading material will be suggested at the start of the rotation.

**INTERNAL MEDICINE****INTENSIVE CARE MEDICINE**

COURSE DIRECTOR:	Joseph Schellenberg, M.D.
DURATION:	Two or Four Weeks
LOCATION:	Cedar Crest campus Muhlenberg campus
OFFERED:	Monthly

This rotation provides experience in intensive care medicine. The student functions as a subintern with direct patient care responsibility under close supervision. The student is a member of a team consisting of house officers and attending physicians.

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**NEPHROLOGY**

COURSE DIRECTOR:	Mohammad Saqib, M.D.
DURATION:	Two or Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly, limited availability

This rotation provides experience on a regional renal service with patients with renal disease, electrolyte abnormalities or hypertension. The student functions on a team with house officers and attending physicians. Both consultations and patients admitted with kidney disease are included in the clinical program.

**RHEUMATOLOGY**

COURSE DIRECTOR:	Albert D. Abrams, M.D.
DURATION:	Two or Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly, limited availability

This rotation provides experience with inpatients and with consultations in a large, multidisciplinary outpatient clinic and in a private office. The student functions as part of a team consisting of a senior resident and attending rheumatologists.

**OBSTETRICS & GYNECOLOGY****GYNECOLOGIC ONCOLOGY**

COURSE DIRECTOR:	Martin Martino, M.D.
DURATION:	Two to Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

Students will participate in outpatient and inpatient activities relative to the diagnosis and treatment of a wide range of malignant and pre-malignant tumors of the female genital tract. They will gain insight in the principles of surgical anatomy, radical pelvic surgery and perioperative care. They will experience the multi-modality approach to the treatment of malignancies of the female genital tract.

*\*Every effort will be made to accommodate the interest of the student.*

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**MATERNAL FETAL MEDICINE**

COURSE DIRECTOR:	Orion Rust, M.D.
DURATION:	Two to Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The student will learn to recognize complicated obstetric disorders and care for the affected patient. The experience will enable the student considering OB/GYN as a career to further evaluate his/her decision.

*\*Every effort will be made to accommodate the interest of the student.*

**REPRODUCTIVE ENDOCRINOLOGY & INFERTILITY**

COURSE DIRECTOR:	Wendy Schillings, M.D.
DURATION:	Two to Four Weeks
LOCATION:	Cedar Crest campus / RMA of New Jersey
OFFERED:	Monthly

The student will observe and participate in both outpatient and surgical areas. Subjects covered and patient population consist of infertility issues, endometriosis, hormone replacement therapy, menopause, puberty and endocrine abnormalities as well as a state of the art in-vitro fertilization lab.

*\*Every effort will be made to accommodate the interest of the student.*

**UROGYNECOLOGY / PELVIC RECONSTRUCTIVE SURGERY**

COURSE DIRECTOR:	Yong T. Zheng, M.D.
DURATION:	Two to Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The student will learn how to perform the proper clinical evaluation and become knowledgeable in appropriate treatments for female pelvic floor disorders, including urinary and fecal incontinence as well as pelvic organ prolapse. This rotation provides the student with active clinical involvement in the office, urodynamics laboratory, operating room and the inpatient areas. The student who is interested in learning more about challenging pelvic and vaginal gynecologic surgery will find the experience most valuable.

*\*Every effort will be made to accommodate the interest of the student.*

**PEDIATRICS****GENERAL PEDIATRICS**

COURSE DIRECTOR:	Liborio LaRussa, MD
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

This elective will provide the student with practical experience in ambulatory and inpatient Pediatrics. The student will participate fully in all aspects of medical care of both healthy and hospitalized children.

In the Pediatrics outpatient clinic, the student will independently see and evaluate children for both well-child and sick visits under the supervision of attending physicians and nurse practitioners. On the Inpatient Pediatrics unit, the student will participate as a member of the clinical team consisting of attending and resident physicians and third-year medical students. He or she will function as an acting-intern/subintern in the care and management of hospitalized children.

This is a flexible rotation that allows the student to work in ambulatory, inpatient sites or both. In addition, experience and either the Pediatric or Neonatal Intensive Care Units can be arranged.

In addition to the learning opportunities provided by hands-on patient care, the educational experience is supplemented by a didactic lecture series for medical students and weekly Departmental Pediatrics Grand Rounds.

**ADOLESCENT PSYCHIATRY**

COURSE DIRECTOR:	Edward R. Norris, MD
DURATION	Four Weeks
LOCATION:	Muhlenberg campus Inpatient units and partial hospitalization program
OFFERED:	Monthly

- The objective of this rotation is to be able to recommend appropriate treatment of psychiatry disorders common to adolescents.
- The student will develop specific knowledge and skills including:
- Understand and use the bio/psycho/social approach to health care.
- Be able to concisely communicate, in writing and speaking, the key features of the psychiatry assessment and management plan to the treatment team.
- Develop an introductory level familiarity with the literature in this area of psychiatry.
- Develop a basic understanding of psychotherapeutic techniques in this setting.
- All electives require a phone interview with Dr. Norris in advance of registration.

**PSYCHIATRY****ADULT PSYCHIATRY**

COURSE DIRECTOR:	Edward R. Norris, M.D.
DURATION:	Four to Six Weeks
LOCATION:	Muhlenberg campus Inpatient units and partial hospitalization program
OFFERED:	Monthly

The objectives of this rotation are to be able to recommend appropriate treatment for the spectrum of psychiatry disorders common to adults, to understand and participate in the multidisciplinary treatment team, and to understand and appreciate the contributions of each discipline.

The student will develop specific knowledge and skills including:

- Understand and use the bio/psycho/social approach to health care.
- Be able to concisely communicate, in writing and speaking, the key features of the psychiatry assessment and management plan to the treatment team.
- Develop an introductory level familiarity with the literature in this area of psychiatry.
- Develop a basic understanding of psychotherapeutic techniques used in this setting.
- All electives require a phone interview with Dr. Norris in advance of registration.

**CONSULTATION / LIAISON PSYCHIATRY**

COURSE DIRECTOR:	Edward R. Norris, M.D.
DURATION:	Four to Six Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The objective of this rotation is to become proficient in the evaluation and treatment of psychiatric, pathologic and substance abuse disorders in the general hospital setting.

The student will develop specific knowledge and skills including:

- Understand and use the bio/psycho/social approach to health care.
- Be able to concisely communicate, in writing and speaking, the key features of the psychiatric assessment and management plan to the treatment team.
- Develop an introductory level familiarity with the literature in this area of psychiatry.
- Develop a basic understanding of psychotherapeutic techniques used in this setting.
- All electives require a phone interview with Dr. Norris in advance of registration.

**RADIOLOGY****RADIOLOGY**

COURSE DIRECTOR:	Julie Gubernick, M.D.
DURATION:	Two or Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The student will gain didactic and practical experience and training in invasive procedures, nuclear medicine, and various modalities of diagnostic radiology including ultrasound, CT and MRI.

Students will acquire experience in ordering and sequencing imaging examinations, correlating various examinations with clinical problems. Intrinsic to this experience will be elementary interpretation of images in the Diagnostic Radiology and Nuclear Medicine Departments.

The course of study will also include department and interdepartmental conferences, one-on-one didactic teaching by attending radiologists and the use of audio-visual aids.

**SURGERY****CARDIO-THORACIC SURGERY**

COURSE DIRECTOR:	Gary W. Szydlowski, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The student will participate in pre-operative evaluation, assist at surgery and procedures and be involved in post-operative management in a one-on-one relationship with an attending surgeon or a resident. Because of the size and complexity of this division, which includes open heart and thoracic activities, it is recommended that the student discuss personal goals with the chief of the division before starting the course.

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**COLON-RECTAL SURGERY**

COURSE DIRECTOR:	Robert J. Sinnott, D.O.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The student will participate in a busy service with colon-rectal surgery residents. This rotation addresses common disorders that the student may encounter whether he or she should choose to specialize in general surgery, internal medicine or family practice. Additionally, the rotation focuses on colon-rectal surgery and provides opportunities in sigmoidoscopy, fiberoptic colonoscopy and the evaluation and care of colon and rectal disorders arising from systemic disease.

**SURGERY****GENERAL SURGERY**

COURSE DIRECTOR:	Dale Dangleben, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The student will work with a high-volume division of general surgery and will be responsible to the senior surgical resident on the service. Activities will include participation in pre-operative evaluation, surgical procedures and post-operative care. The student will have the opportunity to attend outpatient office hours or clinic.

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**NEUROLOGICAL SURGERY**

COURSE DIRECTOR:	P. Mark Li, M.D., Ph.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The student will be associated with neurosurgical surgeons whose patients' exhibit a wide spectrum of neurological problems, including brain and cord neoplasm and acute and chronic cranial and cord trauma. Activities will include bedside neurological diagnosis, assisting in the neurological operating room, participating in rounds and observing angiographic and CT diagnostic procedures. Prerequisites are introductory surgery and clinical neurology rotations.

**SURGERY****ORTHOPEDIC SURGERY**

COURSE DIRECTOR:	Prodomos Ververeli, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

Students may work within specialized areas or a combination of areas: Orthopedic Trauma, Sports Medicine, Joint Implant/Reconstruction, Spine Surgery, Hand Surgery and the Foot and Ankle. Exposure to all specialty areas is available. The student will participate in operative procedures and in office orthopedics. There are combined weekly division meetings and daily specialty case presentations in formal and informal settings. An opportunity to participate in research projects in any of the specialized areas is available to interested students.

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**PLASTIC SURGERY**

COURSE DIRECTOR:	Walter J. Okunski, M.D., F.A.C.S.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

A rotation with a plastic surgery service with a varied case load is offered. The service is oriented to trauma, facial, hand, cancer and cleft-palate surgery as well as reconstructive and cosmetic surgery. Exposure to the Regional Burn Center located at Lehigh Valley Health Network is also provided. The student will work with attending surgeons and plastic surgery residents.

**SURGERY****TRAUMA / SURGICAL CRITICAL CARE**

COURSE DIRECTOR:	Michael D. Pasquale, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

As a member of the trauma team, along with attending surgeons and house officers in a state-designed Level 1 Trauma Center. The student will participate in the resuscitation of all multi-trauma patients, definitive surgery and critical care. Emphasis is on the pathophysiology of trauma, including metabolic, hemodynamic, cardiopulmonary and nutritional requirements. The student will report to the chief surgical resident and attending trauma surgeon.

An assignment to the Surgical Critical Care Unit is also available. The student will work with a surgical resident and intensivist in the critical care management of surgical patients.

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**UROLOGY**

COURSE DIRECTOR:	Brian P. Murphy, M.D.
DURATION:	Two or Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The student will rotate on the Urological Surgery service, being exposed to the office practice of urology in addition to surgical and consultative experiences. The student is expected to develop a basic fund of knowledge concerning common urologic malignancies, urinary functions, urinary stone disease and voiding function.

**VASCULAR SURGERY**

COURSE DIRECTOR:	Eric P. Wilson, M.D.
DURATION:	Four Weeks
LOCATION:	Cedar Crest campus
OFFERED:	Monthly

The student is expected to function as a subintern on a team with residents and attending surgeons. This service generates an active schedule of operations and arteriograms daily, including endovascular procedures. Additionally, the student will become familiar with work in the Non-Invasive Vascular Laboratory and Interventional Radiology.