Welcome to Summa Health!

It is our hope that this elective catalogue will provide you with all the information you need to choose the right medical student rotation for you. Our extensive array of elective offerings is designed to introduce students to the practice of medicine in an academic community hospital and strengthen skills in various areas, including physical diagnosis and problem-solving. Students also enjoy the benefit of hands-on experience with a diverse patient population offering extensive pathology.

Summa Health ranks among the nation’s top 50 hospitals in U.S. News & World Report’s 10th annual “America’s Best Hospitals” guide. In fact, we earned standings in four key areas: Cardiology and Heart Surgery, Neurology and Neurosurgery, Respiratory Disorders and, for the second year in a row, Orthopaedics. Summa was also recognized as the health care leader in the Akron area when the Cleveland Clinic Health System accepted us as a member of their health care delivery system for Summit, Stark and Portage counties. Recognition like this doesn’t come easily. But it should make your decision about where to get a quality medical education quite a bit easier.

Medical students from LCME or AOA accredited medical schools may apply for clinical electives.

To apply to our institution, please complete and submit an application through the Visiting Student Application Service (VSAS). For more information on our visiting student electives, please contact Medical Education at (330) 375-3107 or e-mail medicaleducation@summahealth.org.
Addiction Medicine

Objectives:
1. To provide students with exposure to a range of addiction medicine issues, including detoxification strategies from major classes of addicting substances, as well as exposure to treatment from an inpatient and outpatient perspective.
2. To develop a knowledge of psychotherapeutic and psychopharmacologic approaches to contemporary treatment of addiction.

Description:
1. Students will be assigned to Dr. Shein.
2. Students will have experiences in both inpatient and outpatient settings and in the residential program at Interval Brotherhood Home.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Alan H. Shein, M.D.
Adult Psychiatry

Objectives:
1. To provide the student with a general and broad knowledge of psychiatry and a holistic (biological, psychological, social and cultural) approach to psychiatric problems and ailments.
2. To develop knowledge of psychotherapeutic modalities and skills in diagnosis, treatment and management of the patient.

Description:
1. Student will be assigned to the Division of Psychiatry.
2. He/she may also be exposed to some patients in the private office practice of the preceptor.
3. The student will participate with the diagnosis and treatment of the adult psychiatric hospitalized patient and in the emergency room evaluation of patients with psychiatric problems and the disposition planning of these patients.
4. Student will participate on a limited basis in outpatient psychiatric clinic and seeing patients on the consult with the preceptor.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. David Deckert, M.D., Clinical Assistant Professor of Psychiatry, NEOMED
2. John Kasper, Jr., M.D., Assistant Professor of Psychiatry, NEOMED
3. Joseph Varley, M.D., Assistant Professor of Clinical Psychiatry, NEOMED
4. Todd Ivan, M.D., Associate Professor of Psychiatry, NEOMED
Anesthesiology

Objectives:
1. To develop a number of manipulative skills that are clinically useful while assisting in anesthetizing patients.
2. To review and apply the basic sciences of physiology and pharmacology in the clinical setting.

Description:
1. Preoperative visit, data collection, anesthesia plan-risk evaluation, choice of agents and techniques.
2. Operating room: maintaining anesthesia state, maintaining physiology, I.V.s, airway establishment, intubation, and ventilator use.
4. Student to observe special problems in ICU-CCU, maternity, emergency room.
5. Daily discussion session on pertinent clinical topics.

Night Call/Special Requirements:
Night call one night per week, but may be arranged as suitable.

Responsible Faculty/Rank:
1. Robert Donahue, M.D., Assistant Professor of Anesthesiology, NEOMED
2. Michael Hovan, M.D., Assistant Professor of Anesthesiology, NEOMED
3. John Jeanmaire, M.D., Assistant Professor of Anesthesiology, NEOMED
4. Steve Mitchell, M.D., Assistant Professor of Anesthesiology, NEOMED
5. Gregory Cloyd, M.D., Assistant Professor of Anesthesiology, NEOMED
6. Selected CRNAs
Cardiology

Objectives:
1. To provide the medical student with experience in the evaluation of the adult cardiac patient in the inpatient and outpatient setting.
2. To provide experience in the evaluation and management of critical cardiac patients.
3. To provide an understanding of and experience with pharmacologic therapy of acute and chronic cardiac disease.

Description:

Option #1 - Cardiology
1. Student will spend four (4) weeks seeing both inpatients and outpatients. This will be primarily a consultative rotation.
2. Student will have exposure to both invasive and noninvasive cardiac diagnostic studies. Student will participate in one-on-one EKG interpretation sessions.
3. Student will evaluate both inpatients and outpatients.
4. No call responsibility.

Option #2 - Coronary Care Unit
1. Student will work closely with the Resident Team assigned to the Coronary Care Unit.
2. Student will assist in the work-up and ongoing management of acute cardiac emergencies.
3. Student will participate in daily Teaching Rounds conducted by a member of the Division of Cardiology.

Responsible Faculty/Rank:
1. Kevin Silver, M.D., Clinical Professor of Internal Medicine, NEOMED, Director of Heart and Lung Unit, Director of Cardiovascular Education, Director of Cardiac Cath Lab, Director of Ischemic Disease, Associate Cardiovascular Medicine Fellowship Director
2. Roger Chaffee, M.D., Assistant Professor of Clinical Internal Medicine, NEOMED, Chairman, Department of Cardiovascular Disease, Director of Quality, Summa Health Heart and Vascular Institute
Clinical Urology

Objectives:
To provide the student who has a serious interest in urology as a career with exposure to the breadth and scope of this discipline. This is not a general elective offered to students whose interests lie outside the surgical field.
1. Increase the student’s understanding of the scope of urology.
2. Initiate the student into reading about specific urologic diseases and problems.
3. To achieve a deeper understanding of the anatomy, physiology and pathophysiology of urology disease.

Description:

Clinic
1. One day per week spent in resident clinic
2. One day spent in clinic with either Department Chairman
   a) Kevin Spear, MD - Summa
   b) Ray Bologna, MD - AGMC

Presentation
1. Student will be required to present to the Urology Department at the end of the month during Wednesday conference
2. Student MUST discuss topic and review presentation parameters with chief resident(s)

Surgery
1. Student will spend non-clinic days in surgery
2. With chief resident permission, student can move between institutions to view/participate in interesting case

Night Call/Special Requirements:
1) One day of in-house call per week to take place at assigned hospital
2) Student will work directly with first-call resident on consults and OR cases as necessary
3) Student is excused from duties after 12pm
Colon and Rectal Surgery

Objectives:
1. To gain appreciation of surgery as a body of knowledge that incorporates operative techniques, anatomy, physiology, and pathology relative to diseases of the colon, rectum, and anus.
2. To increase knowledge in preoperative and postoperative care.
3. To expose student to surgical office practice of proctology.
4. Familiarity with endoscopic techniques.
5. To participate in acute critical care.
6. To expand manual skills of wound care and invasive body techniques.

Description:
1) Participation in admission, preoperative, operative therapy, and postoperative care of the surgical patient.
   a) Elective and emergency patient.
   b) Admission history and physical examination.
   c) Planning and participation in diagnostic work-up.
   d) Participation in office patient evaluation and procedures.
   e) Attendance and participation in surgical conferences.
1) Read appropriate current surgical literature.
2) The student may be required to submit an essay paper upon request.

Night Call/Special Requirements:
Night call is every 3rd night, covering emergency and/or ICU responsibilities.

Responsible Faculty/Rank:
1. Frederick A. Slezak, M.D., Professor of Surgery, NEOMED
2. Joel A. Porter, M.D., Professor of Clinical Surgery, NEOMED
3. Michael J. Cullado, M.D., Assistant Professor of Clinical Surgery, NEOMED
Diagnostic Radiology

Objectives:
Expand student knowledge regarding:
1. Radiologic diagnostic procedures
2. Anatomy and physiology of different organ systems and age groups
3. Pathology as shown by diagnostic radiology in different organ systems and age groups
4. Basic knowledge of diagnostic radiology
5. Ability to select radiologic procedures most appropriate in the solution of patient problems

Description:
In an effort to tailor the elective to individual student desires, a conference between the student and the elective director should take place the first day of the elective. Unless tailored by the student and director, each elective will follow the guidelines as listed below:
1. Familiarize the student with equipment and performance of radiographic examinations from the viewpoint of patients, referring physicians and the radiologist.
2. Discuss and participate with radiology faculty in interpretation of examinations of the skeletal system, the chest and cardiovascular systems, the gastrointestinal and genitourinary tract.
3. A designated period of time should be directed to special procedures. As appropriate this should include angiography, sonography, CT scanning, MR imaging, nuclear radiology and interventional procedures.
4. Lastly, the student will assume increasing responsibility in complicated case reviews, study and review of pathological materials and files, and select and submit appropriate cases for inclusion in institutional teaching files.
5. Throughout the elective, the student will attend intra-departmental and inter-departmental conferences. As appropriate, developing and presenting one or more intra-departmental presentations.
6. Evaluation will include ongoing discussion and critiques between the student and participating radiology faculty during the elective.
7. Attendance is required during usual working hours.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Syed I. Ali, M.D., Clinical Assistant Professor of Radiology, NEOMED
2. Daniel A. Finelli, M.D., Associate Professor of Radiology, NEOMED
Emergency Medicine

Objectives:
1. Provide an opportunity for the medical student to witness the initial presentation of critically ill patients into the health care delivery system at a Level 1 Trauma Center.
2. Provide a knowledge base for identifying those patients with serious diseases that require immediate medical or surgical intervention.
3. Learn the diagnostic approaches to specific patient complaints as well as the management of specific emergencies.

Description:
1. The purpose of the elective is to introduce the medical student to the skills and concepts of the specialty of emergency medicine.
2. The student will learn the emergency medicine physician’s approach to the care of patients with a variety of urgent problems.
3. The elective will emphasize the diagnostic capabilities of the student who will evaluate, diagnose, and treat the emergency patient under the direct supervision of the attending emergency physician.
4. The medical student will obtain the clinical knowledge and learn the skills and procedures necessary to initiate treatment of patients with life or limb threatening disease.
5. The medical student will become familiar with the interactions between the emergency department and medical and surgical specialties in the management of emergent patients.
6. The medical student will become familiar with emergency medical services in the delivery of pre-hospital care.
7. The evaluation of emergent patients by the student physician during this rotation will encompass all medical specialties, with emphasis upon managing the most seriously ill patient first and managing several patients simultaneously.
8. The elective will provide a sense of confidence, professional maturity, and enhance the progressive development of the student into a capable physician.
9. The Emergency Medicine program accepts a limited number of students in July.

Responsible Faculty/Rank:
1. S. Jwayyed, M.D., M.S., FACEP, Professor of Emergency Medicine, NEOMED
2. Alison Southern, M.D., M.S. FACEP Assistant Professor of Emergency Medicine, NEOMED
Emergency Medical Services

Objectives:
1. To provide the student with experience in the evaluation and management of patients in the prehospital setting.
2. To increase knowledge in the management of acute and critical patients requiring immediate intervention.
3. To provide an understanding of the organization and function of EMS systems and the role they play in patient care.

Description:
Emergency care begins long before the emergency department. This elective is designed to complement an emergency medicine rotation and experience by focusing on the acute stabilization of critically ill patients in the prehospital setting as well as on EMS operations in general. You will observe and participate in emergency care beginning with dispatch (including pre-arrival instructions) to on-scene/field care all the way up through the ED portion of care. Tactical EMS experience is available.

After this rotation students will be able to:
1. Manage several acute prehospital presentations including respiratory distress, cardiac arrest, hyperkalemia, and chest pain in the field and ambulance.
2. Identify common and uncommon STEMI (ST elevation MI) patterns and mimics on ECGs.
3. Differentiate and treat the different supraventricular tachycardia.
4. Describe the role of dispatch and pre-arrival instructions play in EMS patient care.
5. List differences in care provided by different levels of EMS providers.
6. Identify differences in EMS care between a tactical and civilian setting.
7. Demonstrate knowledge of basic field triage in mass casualty.
8. Explain the role of medical director in EMS.

Electives are generally four week/1 month in length and are available from September - May. Limit of 6 students per rotation. By communicating your goals and objectives to use in advance, there is flexibility to design an experience which is tailored to your individual interests.

Responsible Faculty/Rank:
Main Preceptor:
Francis Mencel, MD, Medical Director, Summa Center for EMS

Additional Faculty:
Daniel Celik, MD, Associate EMS Director, Summa Center for EMS
Bradley Clarke, DO, Associate EMS Director, Summa Center for EMS
Peter Listerman, MD, Disaster & Emergency Preparedness Medical Director, Summa Akron City Hospital
Endocrine/Diabetes

Objectives:
1. To familiarize the student with the major clinical problems in endocrinology, both inpatient and ambulatory.
2. To have the student sample the subspecialty for its potential as a career choice.
3. To make the student aware of ongoing research projects.

Description:
1. The student will share inpatient and ambulatory endocrine patients with Dr. Levy, Dr. King and Dr. Shewbridge and the residents assigned to their service.
2. Student will be assigned a reasonable number of new patients on whom to perform the initial consultation or evaluation, including history and physical examination, ordering of laboratory studies and report writing.
3. The student will be asked to read literature pertinent to the patients they study.
4. Typical daily schedule: Make rounds in early morning, attend a scheduled medical noon conference and see ambulatory patients before and after the noon conference.
5. "Hands-on" patient care under supervision is emphasized.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Toni King, M.D., Associate Professor of Internal Medicine, NEOMED
2. James Salem, M.D., Associate Professor of Internal Medicine, NEOMED
Family Medicine

Objectives:
To provide a well-rounded Family Medicine experience; this includes exposure to the wide variety of patient ages and conditions seen in our specialty. Included is care of obstetric patients, newborns (both outpatient and newborn nursery), children, adults and geriatric patients (in the outpatient, inpatient and nursing home settings).

Description:
1. Exposure to outpatient care with residents and faculty in the Family Medicine Center
2. Inpatient care via participation in Family Medicine Service clinical and teaching rounds with residents and faculty
3. Attendance (and opportunity to participate in) Morning Report clinical and didactic presentations
4. Underserved patient experiences
5. Hands-on procedural (e.g. suturing) and Osteopathic Manipulation Therapy workshops
6. Optional opportunities to spend time on other services such as OB, Surgery, Emergency Department, and Pediatrics

Electives are set up in two or four-week block rotations. By communicating your goals and objectives to us in advance, we have the flexibility to design an experience which is tailored to your individual interests.

Responsible Faculty/Rank:
1. Melanie K. Bortell, D.O.
   Osteopathic Program Director. Director, Osteopathic Medical Education
2. David M. Sperling, M.D.
   Associate Director, Family Medicine Residency
Family Medicine - Barberton

Objectives:

By the end of the rotation and to the satisfaction of the faculty, the student:

1) Recognizes patient education opportunities and responds appropriately.
2) Demonstrates appropriate interdisciplinary management plans.
3) Demonstrates health maintenance and disease prevention strategies.
4) Performs required technical and procedural skills.
5) Communicates clearly and respectfully in patient encounters.
6) Engages the patient and/or family in communication to facilitate collaborative patient care.
7) Communicates clearly, respectfully, and collaboratively with other health care providers and clinical teams.
8) Demonstrates logical organization of relevant data in oral presentations and legible written documentation.
9) Demonstrates sensitivity and responsiveness to diverse patient attributes.
10) Demonstrates respect and concern for the welfare of patients
11) Demonstrates appropriate behavior and conduct.
12) Demonstrates a commitment to ethical principles including those pertaining to provision or withholding of care, confidentiality of patient information and informed consent.
13) Behaves reliably and with accountability in performing duties.
14) Behaves honestly and with integrity with regard to duties.
15) Presents appropriate appearance and demeanor.
16) Displays insight and reflection in assessment of self including acknowledgement of strengths and recognition of limitations in knowledge and skills.
17) Incorporates constructive feedback to enhance performance.
18) Pursues self-directed learning.
19) Demonstrates knowledge of content in order to generate a clinical problem list.
20) Recognizes complications and co-morbid conditions that compound identified clinical problems and include this information to synthesize relevant differential diagnoses.
21) Identifies and incorporates information obtained from reference literature to synthesize a relevant differential diagnosis.
22) Synthesizes data to formulate management plans reflecting an understanding of pathophysiology, pharmacology practices, and patient morbidity.
23) Demonstrates use of and interpretation of diagnostic procedures and laboratory data.
24) Demonstrates the concept of practice-based improvement.
25) Uses information technology to enhance self-education and patient care practices.
26) Advocates for quality patient care.
27) Participates in a multidisciplinary team approach to health care delivery.
28) Approaches patient management plans in a practical, efficient, and cost effective manner

Night Call/Special Requirements:

Call Requirements: Negotiable.

Responsible Faculty/Rank:

1. Nancy Flickinger, M.D., Associate Director, Summa Barberton Family Practice Residency
Gastroenterology

Objectives:
To provide the student with experience which will build a broader base in the field of gastroenterology and hepatology.

Description:
1. Students will be assigned to the gastroenterologist and resident team of the month.
2. They will participate with the attending physician in consultative and floor rounds, and observe patients in the office setting.
3. Students will observe gastrointestinal endoscopy and other procedures as scheduled.
4. Students will perform selected patient evaluations by history and physical examination, write or suggest physician orders, and observe continuity of care.
5. They will learn diagnostic features of gastrointestinal radiology and review pathologic specimens.
6. Students will be required to do selective reading in the broad field of gastroenterology, guided by patients with whom they are involved. A syllabus will be available to augment reading selections.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Duane Roe, M.D., Associate Professor of Internal Medicine, NEOMED
2. Ram Bandi, M.D., Assistant Professor of Internal Medicine, NEOMED
3. Edward J. Esber, M.D., Assistant Professor of Internal Medicine, NEOMED
General Surgery

Objectives:
1. To gain appreciation of surgery as a body of knowledge that incorporates operative techniques, anatomy, biochemistry, physiology, pharmacology, pathology, bacteriology, medicine and psychology.
2. To increase knowledge in preoperative and postoperative care.
3. To expose student to surgical office practices.
4. Familiarity with endoscopic techniques.
5. To participate in acute critical care.
6. To expand manual skills of wound care and invasive body techniques.

Description:
2. Attendance and participation in surgical conferences.
3. Read appropriate current surgical literature.
4. The student may be required to submit an essay paper upon request.

Night Call/Special Requirements:
Night call is every third night.

Responsible Faculty/Rank:
1. Joel Porter, MD, Clinical Assistant Professor of Surgery, NEOMED
Gynecologic Oncology

Objectives:
1. To acquire a basic understanding of gynecologic malignancies with regard to their pathophysiology, evaluation and treatment.
2. To improve surgical skills and the ability to care for critically ill patients.

Description:
1. The student will participate in the in-hospital care of patients with gynecologic malignancies at Summa Health System.
2. Student will participate in daily workups, radical surgery, calculation and administration of anti-cancer chemotherapy and the intensive care required by these patients.
3. The student will have an opportunity to deal with the emotional aspects of serious and terminal disease through direct contact with the patient and her family.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Stephen J. Andrews, M.D., Professor of Obstetrics/Gynecology, NEOMED
2. Robin Laskey, M.D., Professor of Obstetrics/Gynecology, NEOMED
Hospice Care

Objectives:
To provide an introduction for medical students to palliative care of terminally ill patients in the home and in the hospice setting.

Description:
1. The student will learn components of pain management, specific causes and treatments for nausea and vomiting, and management of anorexia, constipation, restlessness, delirium and psychological, social and spiritual distress in terminally ill patients.
2. The student will participate as part of a treatment team, with the patient's primary physician in the care of the patient and family.
3. The student will learn basic listening skills for palliative care, how to break bad news to a patient and family, and how to engage in therapeutic dialogue with family members and between members of the treatment team. Two-week elective students will round on Hospice patients with attending physicians and independently, attend Hospice team meetings on Thursday and Friday, and make home visits with team nurses.
4. Four-week elective students will round on Hospice patients with attending physicians, attend Hospice team meetings, make home visits with team nurses, and follow one hospice patient during the month, including family visits.

The reading syllabus includes the following:
Primer of Palliative Care, Associate Professor of Clinical Internal Medicine American Academy of Hospice and Palliative Medicine (AAHPM), Porter Storey, M.D.

Additional readings include:
Management of Cancer Pain, U.S. Department of Health and Human Services
Journal of Pain and Symptom Management
Uipacs 1 through 5: Hospice and Palliative Care Training for Physicians, AAHPM

5. A written evaluation will be completed by faculty and head nurse at the Hospice Care Center located at 3358 Ridgewood Rd., Fairlawn, OH.

Responsible Faculty/Rank:
1. Steven M. Radwany, M.D., Associate Professor of Clinical Internal Medicine, NEOMED
Infectious Disease

Objectives:
Become familiar with the diagnosis and treatment of patients with Infectious Diseases and the appropriate use of antibiotics.

Description:
The rotation is designed to be flexible according to the interests of the student. Each student may spend the entire four-week period on the infectious disease consult service or may spend one to two weeks in the Care Center and the remaining weeks on the consult service. Student time will include:
1. Patient work-ups with consideration of differential diagnosis and treatment. Literature review and reports. Time spent in the microbiology, virology and infectious disease laboratories.
2. Lecture three to four times a week.
5. Excluding time spent directly in the Care Center, it is anticipated that each student will receive at least four hours devoted to education on HIV/AIDS, other blood-borne diseases and infection control.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Michael Tan, M.D., Assistant Professor of Internal Medicine, NEOMED
2. Thomas File, M.D., Professor of Internal Medicine, NEOMED
3. Joseph Myers, M.D., Professor of Internal Medicine, NEOMED
4. Stephen Francis, M.D., Assistant Professor of Clinical Internal Medicine, NEOMED
Internal Medicine Subinternship

Objectives:
To provide the student with an opportunity to function in the capacity similar to that of an intern, but under teaching supervision.

Description:
1. The student will report directly to the resident with ward responsibilities and will participate in patient assignments, teaching rounds, work rounds and night call in the manner identical to an intern.
2. The student's histories and physicals, when countersigned, will be an official part of the patient record.
3. All procedures must be performed by the student under direct supervision.
4. All orders must be written and signed with the student and cosigned by a physician, either resident or attending. Verbal orders must not be given by the subintern.
5. All orders must be cosigned by a physician, either resident or attending, before they may be enacted by the nursing department.
6. While on call, the subintern may take the first call in the hospital in lieu of an intern or first-year resident when approved by the respective department.
7. Daily care of the patient and attendance at work rounds and teaching rounds will be expected.
8. The student will have at least 3 and not more than 7 patient evaluations per week which will cover the broad scope of general internal medicine.

Night Call/Special Requirements:
Night call every fourth night.

Responsible Faculty/Rank:
1. Bradley Moore, M.D., Clinical Associate Professor of Internal Medicine, NEOMED
Clinical Geriatrics

Prerequisite:
Completion of the sophomore year of medical school.

Purpose and Overview:
Summa Health System offers the medical student exposure to an integrated continuous system of health care delivery for the older adult. Introduction to Clinical Geriatrics will provide opportunities to see medical care provided to older adults in multiple inpatient, outpatient, and long-term care settings.

Objectives:
Upon completion of this rotation, the student will:

1. Have a working knowledge of "normal aging" and incorporate this knowledge in the care of geriatric patients.
2. Be able to discuss the importance of functional assessment and interdisciplinary team management of the complex frail elderly.
3. Be able to perform a comprehensive geriatric assessment.
4. Have an awareness of various community support resources for the older adult.

Description:

1. Comprehensive geriatric assessment and patient care in an outpatient assessment center, subacute rehabilitation unit, Acute Care of the Elderly (ACE) Unit, and nursing homes.
2. Site visits to community support services (Area Agency on Aging and Adult Day Care).
3. Presentation of a case study and treatment plan for a geriatric patient.
4. Selected reading and topic review with faculty.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:

1. Natalie Kayani, M.D., Professor of Internal Medicine, NEOMED/Senior Services
2. MaryJo Cleveland, M.D., Assistant Professor of Clinical Internal Medicine, NEOMED
3. Bong Kauh, M.D., Clinical Assistant Professor of Internal Medicine, NEOMED
Maternal Fetal Medicine

Objectives:
To introduce the student to the principles of maternal fetal medicine.

Description:
1. The student will perform history and physical exams.
2. He/she will assist in vaginal deliveries and cesarean sections.
3. Interpret OB ultrasounds and FHR monitoring.
4. One presentation on a maternal fetal medicine topic to be assigned.
5. A written or oral exam will be given for feedback

Responsible Faculty/Rank:
1. Angela Silber, M.D.
Medical Intensive Care Unit

Objectives:
1. Introduce student to the emergency and continuing care of critically ill patients.
2. To teach diagnostic and therapeutic care of a major system illness with major emphasis on history and physical exam.
3. To increase skills in formulation of problem-oriented approach to critical illness.

Description:
1. The student will fully participate in the teaching activities of the ICU rotation, including work rounds in the morning and attending rounds one hour each afternoon.
2. The student’s duties will include a patient load approximately half that of the intern.
3. He/she will work directly with the supervisory resident and attending physician on assigned patients (all orders will be co-signed by the responsible resident or intern before being carried out).
4. The student will be expected to work up one new patient during the period on call and to follow his/her own patients throughout the 24 hours.
5. A set of core lectures will be given as part of attending rounds. Reference notebooks will be given to students for the month with required readings and additional references to be read as appropriate.

Night Call/Special Requirements:
Five nights of call with supervision by PGY II and PGY I residents.

Responsible Faculty/Rank:
1. Bradley Martin, M.D., Associate Professor of Clinical Internal Medicine, NEOMED
2. Nicholas Nackes, M.D., NEOMED
3. James A. Wilson, M.D., Associate Professor of Clinical Internal Medicine, NEOMED
Nephrology

Objectives:
To expose students to the scientific approach to clinical problems in nephrology with an emphasis on principles of basic science and their application for the logical management of renal disease.

Description:
1. Students will see patients as they are referred for consultation and do initial assessments, including an appropriate history and physical examination.
2. Students may be given responsibility as primary house officer.
3. Using the urine specimen examination and other appropriate laboratory examination, the student will be expected to arrive at a reasonable assessment of clinical situation and offer plan for patient management.
4. Each case will be presented to the attending nephrologist and reviewed in detail before the consultation becomes official.
5. Appropriate literature references will serve to strengthen the background of the student answering the consult.
6. Typical daily schedule: Daily rounds on consulting service and didactic sessions.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Melinda Phinney, M.D., Assistant Professor of Internal Medicine, NEOMED
2. Joseph Zarconi, M.D., Professor of Clinical Internal Medicine, NEOMED
3. John F. Jacobs, Jr., M.D., Associate Professor of Clinical Internal Medicine, NEOMED
4. Karl D. Schwarze, M.D., Assistant Professor of Clinical Internal Medicine, NEOMED
5. Rose M. Seliga, M.D., Assistant Professor of Internal Medicine, NEOMED
6. Richard E. May, Jr., M.D., Assistant Professor of Clinical Internal Medicine, NEOMED
7. Christopher Boshkos, M.D., Associate Professor of Clinical Internal Medicine, NEOMED
8. Susan M. Ray, M.D., Associate Professor of Clinical Internal Medicine, NEOMED
Neurological Surgery

Objectives:
To introduce the student to the principles of neurological surgery and neurological diseases amenable to surgical treatment.

Description:
1. The student will participate in daily rounds and discussions with the neurosurgeon and his staff.
2. He/she will do patient work ups and be present in the operating room at the time of a neurosurgical procedure.
3. An oral examination will be given at the end of the elective.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Ghassan Khayyat, M.D., Associate Professor of Neurosurgery, NEOMED
Obstetrics/Gynecology

Objectives:
1. The increased responsibility will enable the student to appreciate both the intellectual and technical challenges of Obstetrics/Gynecology.
2. To prepare the student interested in the specialty to function more effectively in an Obstetrics/Gynecology residency.

Description:
1. Attend daily rounds, morning Ob/Gyn conferences. Grand rounds Friday morning.
2. Assist with deliveries and surgeries.
3. Assist with other interesting surgeries as assigned.
4. Work up assigned patients, and follow those patients postop and postpartum.
5. Prepare a brief literature review pertaining to a common clinical program for presentation at morning conference.
6. Perform obstetric ultrasound under supervision.
7. Assist in the teaching of M3 clerks.
8. Attend Ob/Gyn clinics as appropriate.
9. Minimally invasive surgery emphasis

Night Call/Special Requirements:
Every fourth night in hospital.

Responsible Faculty/Rank:
1. Cheryl J. Johnson, M.D., Clerkship Director of Obstetrics/Gynecology
Objectives:
1. Understanding of role of primary physicians in prevention of vision loss.
2. Extension of ocular examination skills.
3. Increase knowledge of ocular diagnosis and treatment.
4. Introduction to ocular surgery and ophthalmologic practice.

Description:
Report to the Medical Education Office (G-4), Professional Building South, at 8:30 a.m. on the first day of the rotation.

First two weeks
Mornings: Conference with director, library, surgery, observation, T.V. tapes.
Afternoons: Clinic at Akron City Hospital. Observation and examination of patients with ophthalmology residents.

Second two weeks
Mornings: Surgery and clinic at Children's Hospital, Monday - Thursday.
Afternoons: Akron City Hospital. Special procedures, surgery, laser, fluorescent angiography, ultrasound, and clinical observation.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Nancy Awender, M.D., Assistant Professor of Ophthalmology, NEOMED
2. Robert Burnstine, M.D., Clinical Associate Professor of Ophthalmology, NEOMED
Orthopaedic Surgery

Objectives:
Medical students will be expected to learn and demonstrate the ability to do:

1. A detailed pertinent history of a patient with an orthopaedic problem
2. A detailed pertinent physical exam of an orthopaedic patient
3. Formulate a basic treatment plan for a variety of orthopaedic problems (traumatic, neoplastic, degenerative, inflammatory, and infectious)

These goals will be achieved utilizing the following available orthopaedic resources:

1. Daily didactic lectures
2. Weekly junior resident/medical student case discussion conference
3. Outpatient clinic experience
4. Emergency room
5. Operating room
6. Every fourth night call
7. Orthopaedic textbooks in department library

Description:
1. During this elective, students will spend time with the Program Director, Chairman and Traumalogist. He/she will also have an opportunity one week to choose which attendings/cases he/she would be interested in working with based on different specialties.
2. The student will attend resident conferences and also daily learning experiences specifically designed for him/her.
3. He/she will be expected to scrub in surgery at least once daily and also work up one patient daily.
4. The student will gain experience in the evaluation of patients in both the Emergency Room and private orthopaedic offices.
5. Subspecialty expertise is also available in hand, spine, rehabilitation and sports medicine and oncology.

Night Call/Special Requirements:
Night call is required every fourth night in the emergency room with the resident on call.

Responsible Faculty/Rank:
1. Scott D. Weiner, M.D., Chairman/Residency Director and Associate Professor, Department of Orthopaedics, NEOMED
2. Jeff Junko, M.D., Director, Orthopaedic Resident Education, NEOMED
Otolaryngology

Objectives:
1. Management of ear infections
2. Management of tonsillitis
3. Learning core competencies of ENT

Description:
1. History and Physical Exams
2. Scholarly activity (case reports, review of literature, etc)
3. Self-directed learning study
4. Written exam for feedback
5. Interpretation of diagnostic studies
6. Presentations- informal and formal (general topics in ENT)
7. Patient case management
8. Documentation (H/P, SOAP Note)
9. Medical and surgical aspects of Otolaryngology
10. Medical aspects includes allergy and hearing testing
11. Management of all facets of otolaryngology
12. Community based office

Responsible Faculty/Rank:
1. Mark Brigham, D.O.
Pathology and Laboratory Medicine

Objectives:
Allows student to become familiar with, observe and participate in daily activities of a hospital-based department of pathology. The experience is designed to include exposure to both anatomic pathology and clinical laboratory medicine.

Description:
The student will:

1. Observe interesting autopsy examinations including all clinical activities which lead to the generation of the final pathologic report.
2. Observe and participate in the gross examination of surgical specimens, as assigned, and review the surgical microscopic sections with the pathologist. The laboratory medicine experience will include rotations through the various clinical laboratories, including clinical chemistry, microbiology, hematology, and immunohematology.
3. Observe the performance of appropriate laboratory tests to gain an appreciation for test interpretation, quality control, and cost effectiveness.
4. Be expected to attend and, where appropriate, participate in all pathology conferences during the elective.
5. Be required to be present during normal working hours Monday through Friday. Attendance on Saturday morning and weekend autopsy call will be at the discretion of the elective director.

Responsible Faculty/Rank:
1. Nikolaj Lagwinski, M.D. Associate Professor of Clinical Pathology, NEOMED
Objectives:
1. To expose the student to basic principles of plastic and reconstructive surgery as they relate to congenital anomalies, trauma, head and neck cancer and aesthetic surgery.
2. To integrate the basic principles of plastic and reconstructive surgery with instruction in suturing.

Description:
1. The elective will involve the three hospitals that are integrated into the Plastic Surgery Training Program: Summa Akron City Hospital, Children's Hospital Medical Center of Akron, and Akron General Medical Center.
2. The student will be assigned to an attending so that office patients as well as outpatient surgery may be observed.
3. The student will be responsible for the history and physical and pre- and postsurgical orders on all assigned patients.
4. The student will attend all conferences and the clinic at the hospital where he/she is assigned.

Night Call/Special Requirements:
Night call with the plastic surgery resident on a rotational basis.

Responsible Faculty/Rank:
1. Douglas Wagner, M.D., Professor of Plastic Surgery, NEOMED
Pulmonary Medicine

Objectives:
1. To provide an exposure to the spectrum of pulmonary disease seen in a general hospital.
2. To gain a better understanding of bronchopulmonary anatomy and the physiological basis of pulmonary function testing.

Description:
1. The student will attend daily pulmonary rounds with the attending physician and residents.
2. He/she will see inpatient consultations and review the diagnostic and therapeutic plans with the attending physician.
3. Pulmonary function tests will be reviewed with the attending assigned to the laboratory for the month.
4. The student will observe and assist with special procedures, including fiberoptic bronchoscopy and pleural biopsy.
5. Participation in a monthly pulmonary conference.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Hitesh Makkar, M.D., Assistant Professor of Internal Medicine, NEOMED
2. Kenneth Kretchmer, M.D., Associate Professor of Clinical Internal Medicine, NEOMED
3. Charles Fuenning, M.D., Associate Professor of Internal Medicine
Radiation Oncology

Objectives:
To give the student an exposure to radiation oncology's role in treatment of patients and to the therapeutic uses of radiation in dealing with cancer patients.

Description:
1. Designed to provide the student with a familiarity of the instrumentation and their therapeutic uses, as well as treatment planning procedures.
2. Emphasis will be placed on the procedures used in therapy and treatment as a part of solutions to patients' oncologic needs.
3. The student will be assigned to study under the supervision of a radiation therapist/oncologist at each hospital.
4. Emphasis will be placed on patient history, clinical findings, pathology, treatment and prognosis of new patients.
5. An extensive exposure to as many cancer cases as possible will take place, emphasizing the related problems involved in treatment.
6. A brief written report or presentation on an assigned subject may be required.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Desire Doncals, M.D. F.A.C.R.O., Clinical Assistant Professor of Radiology, NEOMED
Reproductive Endocrinology and Infertility

Description:
1. History and Physical Exams
2. Scholarly activity (case reports, review of literature, etc)
3. Self-directed learning study
4. Presentations- informal and formal
5. Documentation (H/P, SOAP Note)

Responsible Faculty/Rank:
1. Priya Maseelall, M.D.
Sports Medicine

Objectives:
1. To introduce the student to the principles of diagnosis, treatment and rehabilitation of acute sports injuries.

Description:
The student will:
1. Gain experience in the outpatient diagnosis and treatment of athletic injuries.
2. Accompany a team physician covering an athletic event (seasonal)
5. Observation of procedures pertinent to the care of musculoskeletal patients.
6. Typical daily schedule: Full day experiences related to sports medicine evaluation, treatment, and rehabilitation of injuries. After hour event coverage as available.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Nilesh Shah, M.D., Clinical Assistant Professor of Family Medicine, NEOMED
Surgical Intensive Care

Objectives:
1. To recognize and understand the problems in management of critically ill patients.
2. To describe the application of management and monitoring various invasive techniques.

Description:
1. The student will have direct patient contact and rotate with a surgical resident. The student will meet daily with faculty in anesthesia, intensive care, and cardiovascular surgery.
2. The student will be expected to: a) evaluate and write progress notes on assigned patients; b) attend applicable conferences and sign out rounds; c) participate in daily clinical and x-ray rounds; d) complete a research project or conduct a literature search at the discretion of the attending physician; and e) evaluate patients admitted from the Emergency Department to the Intensive Care Unit.

Night Call/Special Requirements:
Every third night.

Responsible Faculty/Rank:
1. Joel A. Porter, M.D., Associate Professor of Surgery, NEOMED
Thoracic/Cardiovascular Surgery

Objectives:
1. In-depth experience in thoracic surgical disease.
2. Develop surgical skills particular to thoracic surgery.

Description:
1. Primary patient care.
2. Operating room experience.
3. Conference presentation.
4. Laboratory experience: vascular, esophageal.
5. Intensive care and coronary care experience.

Night Call/Special Requirements:
Night call every third night.

Responsible Faculty/Rank:
1. Robert Baranek, M.D., Assistant Professor of Thoracic Surgery, NEOMED
2. Robert Debski, M.D., Associate Professor of Thoracic Surgery, NEOMED
3. Albert Abbott, Jr., M.D., Clinical Assistant Professor of Surgery, NEOMED
Vascular Research

Objectives:
1. To introduce medical students to clinical and basic science research in the field of vascular biology.
2. To design and conduct a limited research project related to vascular research/vascular surgery.

Description:
1. Laboratory research activities in the fields of tissue culture of vascular cells and evaluation of cell physiology.
2. Laboratory research activities using the facilities of the Summa Akron City Hospital Surgical Research Department for evaluation of vascular graft function.
3. Laboratory research activities using the facilities of the Summa Akron City Hospital Surgical Research Department for evaluation of novel wound dressings.
4. Literature searches to develop an understanding of the state of knowledge of vascular cell biology.
5. Participation in ongoing clinical studies evaluating endothelial cell seeded vascular grafts.
6. Participation in ongoing studies on atherosclerosis.
7. Typical daily schedule: 8:00 a.m. - 4:30 p.m. Activities as shall be assigned and related to the specific needs of the laboratories.

Night Call/Special Requirements:
None

Responsible Faculty/Rank:
1. Steven P. Schmidt, Ph.D., Adjunct Assistant Professor of Physiology, NEOMED