

ELECTIVE NAME:

Advanced Internal Medicine

MEDICINE/INPATIENT

COURSE NO:

MED 628

PREREQUISITE:

Required Medicine Clerkship

INSTITUTION:

Spectrum Health Butterworth

Spectrum Health Blodgett

Saint Mary's Health Care

OBJECTIVES:

The student will increase his/her knowledge of Internal Medicine.

The student will be given the opportunity to have direct responsibility for patients (under supervision).

The student will develop skills in the accurate assessment of medical problems and patient management.

DESCRIPTION:

The student will have the opportunity to participate in an intern-like role on one of the general medicine services. The student's responsibility will be similar to that of the first-year resident, except that orders must be countersigned by a senior resident. The student will work up patients, initiate their management, relate directly to admitting physicians and consultants, participate in rounds and conferences, and take call with the senior resident.

Inpatient: 100%.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

*seniors Intern Equiv.

ELECTIVE NAME:

Advanced Internal Medicine Outpatient

MEDICINE/OUTPATIENT COURSE NO:

MED 628

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Private Office

OBJECTIVES:

The student will demonstrate:

- Comprehensive work-up of new patients.
- Effective problem solving, planning and follow up.
- Good doctor/patient relationships and concern for patient interests.
- Appropriate use of consultants and allied health personnel.
- Willingness to give and receive constructive criticism. Use of appropriate medical literature is expected.

DESCRIPTION:

The student will refine diagnostic and intervention skills in general internal medicine as supervised in an outpatient setting by assuming increased management responsibilities (compared to those assumed in the required clerkship) for a small number of patients. The experience is somewhat variable and could include some exposure to Geriatrics upon special request.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

DESCRIPTION:

The student will have the opportunity to participate in an intern-like role on one of the general medicine services. The student's responsibility will be similar to that of the first-year resident, except that orders must be countersigned by a senior resident. The student will work up patients, initiate their management, relate directly to admitting physicians and consultants, participate in rounds and conferences, and take call with the senior resident.

Inpatient: 100%.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

*seniors Intern Equiv.

ELECTIVE NAME:

Allergy/Immunology

COURSE NO:

MED 616

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Private Office

DESCRIPTION:

The student will learn how to take an allergy history and how best to clinically evaluate the allergic patient. There will be emphasis on understanding skin testing techniques as well as other immunologic tools which may be used in a clinical allergy evaluation. There will also be teaching regarding the use and interpretation of pulmonary function tests. In addition to diagnosis, there will also be emphasis on treatment of allergic patients which may involve immunotherapy as well as pharmacotherapy.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

*Even though this description is listed as Allergy, it is a combined course with

Immunology-Allergy/Immunology: MED 616.

ELECTIVE NAME:

Cardiology

COURSE NO:

MED 611

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Spectrum Health Butterworth

Spectrum Health Blodgett

Saint Mary's Health Care

OBJECTIVES:

The student should be able to take a detailed cardiovascular history and perform a good cardiovascular physical examination. The student will be able to detect symptoms and physical findings of congestive heart failure, hypertensive ischemic and valvular heart disease, as well as cardiomyopathies. The student will be introduced to concepts of cardiac hemodynamics as they are assessed in the coronary care unit and in the catheterization laboratory and should be able to correlate these findings with cardiac symptoms, physical findings and electrocardiograms.

The student should be able to recognize enlargement of great vessels and heart chambers, and signs of pulmonary venous congestion. The student should be able to recognize the major electrocardiography abnormalities.

DESCRIPTION:

This elective will offer students the opportunity to assist and observe in the care and management of cardiac patients. When possible, they will have the opportunity to watch swan ganz catheterization and, when available, cardiac catheterization. They will also observe and participate in noninvasive procedures done by staff cardiologists.

Students will learn to perform a complete clinical evaluation and be able to discuss findings in detail with the faculty. Students will follow patients regularly in both inpatient and outpatient settings, will

attend weekly conferences, and will do work-ups on a referral basis. The major emphasis will be on clinical skills of history taking and physical examination, management of patients with heart disease, and an understanding of normal and abnormal cardiac hemodynamics. Upon completion of the elective, the student should be able to differentiate normal and abnormal electrocardiograms.

Inpatient: 40-60%; Outpatient 40-60%.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Dermatology

COURSE NO:

MED 613

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Private Office

OBJECTIVES:

To provide students with an introduction to the diagnosis and treatment of dermatologic diseases.

To obtain first hand knowledge of the significance of skin biopsy and histopathological interpretation and clinical pathological relationships.

The student will become familiar with the classification of dermatologic diseases useful in diagnosis and patient treatment.

To give the student a better understanding of the relationship of dermatology in general medicine.

DESCRIPTION:

This elective will provide students the opportunity to examine patients under the direction of an office physician. The student will perform a physical examination and will be expected to learn the basic techniques for examination of the cutaneous system. The student will have the opportunity to learn classification of skin diseases and understand the basic principles of diagnosis and treatment; and if the opportunity permits the student will be exposed to therapeutic modalities of treatment. The student will be exposed to outpatient surgery of skin tumors.

Outpatient: usually 100%.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Emergency Medicine

INSTITUTION:

Spectrum Health--Butterworth

OBJECTIVE:

The objective of this elective is to introduce the medical student to the principles, practice, and procedures of emergency medicine by providing a meaningful rotation through the emergency department. By the end of the rotation the student will: Have been exposed to a wide spectrum of emergent and nonemergent problems; Recognize that the patient defines the emergency; Understand how the emergency department relates to other departments and services within the hospital; Develop and improve skills in suturing, radiographic interpretation, establishing IV's, cardiopulmonary resuscitation, lumbar puncture, etc.; Develop the ability to quickly determine the relevant history and physical with selective use of ancillary services to arrive at the most efficient and effective emergency assessment, management and disposition.

CURRICULUM:

The student will be provided with an orientation to the department. A series of lecture series are held throughout the elective month on Monday and Wednesday afternoons from 3:30 – 4:30 p.m. where emergency medicine topics will be discussed in depth. Attendance is required.

RESPONSIBILITIES:

- **PATIENTS:**
Patients seeking emergency services do so for various reasons. As stated previously, the patient defines the emergency. Regardless of the extent of the emergency – major or minor – the patient is to be treated with efficient and professional care.
- **TEACHING:**
You may see the patients of your choice, but before initiating any test or therapy, the patient must be presented to the emergency medicine resident of emergency department attending staff member on duty. Upon return of ordered x-rays and laboratory tests, prior to discharge or admission, and prior to notification of the patient's physician or calling of a consultant, the patient again is to be presented to the emergency medicine resident and/or attending staff member. In this manner the patient will be provided with the most efficient treatment, and you will also obtain guidance with your decision-making process. You will be expected to complete (dictate) the patient care record.

READING:

At the beginning of your rotation, you will be provided with a copy of Hamilton's text Emergency Medicine – An Approach to Clinical Problem-Solving to read during your clerkship and this is expected to be returned to Dr. Matt Emery or Marte Bergman upon completion of your rotation.

There are specific chapters from this text which are required reading. There is also a well-stocked library within the department for your convenience, and you are encouraged to utilize it.

CONFERENCES:

Student/PGI Conferences

Informal interactive discussions of selected EM topics; planned to correspond to reading assignments.

Time – one hour each Monday and Wednesday at 3:30p.m.

Place – the ED Conference Room or Education Room.

DIDACTIC CONFERENCES

Topic – specific subjects pertaining to emergency medicine and outlined in the core content; prepared by the emergency medicine residents and staff.

Time—each Thursday morning of the month, 9:00 A.M. to 12 Noon

Place – Classroom 1529/31

CASE DISCUSSIONS

Topic – discussion of interesting/pertinent cases presenting to the emergency department. At one didactic conference during your rotation, it is expected that you will do a case presentation (approximately 15minutes) using appropriate adjuncts, i.e. x-rays, lab, etc. Direction will be provided by a senior EM resident.

Time—each Thursday morning of the month, 8:30–9:00 a.m.

Place – classroom 1529/31

READING CLUB

(optional)

Topic – discussion of selected chapters as assigned by the emergency medicine resident in charge. Questions will be distributed at reading club and will be answered and appropriately discussed at the time of the meeting.

Time—each Thursday morning of the month, 8:00–8:30 a.m.

Place – announced monthly

JOURNAL CLUB

(optional)

Topic – discussion of selected articles as chosen and assigned by the research director.

Time – 2nd Thursday of each month, 6:30- 8:30 p.m.

Place – announced monthly.

Working Hours: A 40 hour week will be scheduled rotating between three shifts, i.e. 8:00 a.m. – 4:00 p.m., 4:00 p.m.

12 midnight, and 12 midnight – 8:00 a.m.; some weekend shifts will be scheduled. If changes in your schedule are required, the change must be cleared with either Dr. Emery or Marte Bergman.

EVALUATION FORMS:

Upon completion of your rotation, you are to turn in your completed evaluation form(s) of the rotation which can be found in your orientation packet. When you have done this, completion of your medical school evaluation forms will be submitted to the appropriate office. Your course evaluation will be based on clinical performance, daily evaluation forms and participation in student conference. The emergency medicine faculty and house staff welcome your participation in the program at Spectrum Health – Downtown and will make a concerted effort to provide you with the best educational experience possible in a busy, Level 1, tertiary hospital setting. We hope that you will find your time with us beneficial to you as an individual and in your learning process. Please feel free to contact us should you have any questions or concerns.

Career-track material for students interested in pursuing post-graduate training in Emergency Medicine:

- The “career-track” academic and clinical experiences outlined below are designed to provide a broader exposure to the field for those considering a career in Emergency Medicine. The menu of additional educational opportunities includes the following:
- Toxicology: Students will take call for three nights with the toxicology service, and then round the following three days with one of our fellowship-trained toxicologists.
- Ultrasound: The students will learn the basic ultrasound techniques used to perform a trauma FAST exam, and to establish intravenous access.
- Simulator training: Students will be introduced to the workings of SimMan and METI, state-of-the-art computerized simulators used by our own residents to gain proficiency in caring for critically ill patients. Following this introductory session, they will be tested in providing critical care for a simulated patient.
- Publication of a critical literature appraisal: Dr. Jeff Jones, our research director, will work with each student to perform a critical appraisal of an emergency medicine topic. When completed we anticipate that the student will be able to publish this critical appraisal at an online EBM site (BestBETS.org).
- Procedural training: Students will be trained in the performance of common critical care procedures in Emergency Medicine, including a pig lab for placement of a chest tube, and use of mannequins for placement of central lines, and basic suturing techniques.
- Animal lab During those months when our residents participate in procedural training on anesthetized live animal models, this exposure will also be available to students.

- **Partial participation:** We would like to see career-track students participate in all of these educational opportunities. Students may, however, choose as many as they wish from among the menu of options listed above.
- **Reduced clinical hours:** In recognition of the fact that these additional experiences will add considerably to the time commitment required for the rotation, students who opt to pursue all of the “career-track” material will have their clinical time in the ED reduced by one shift. Students participating in three or more of the programs outlined above will have their clinical time cut by four hours.
- **Faculty Mentor:** To help the student complete these additional requirements, and to serve as a mentor during the month, each student will be assigned a faculty advisor during the month.
- **July Rotations:** Students participating in the career track may also select to rotate with us in the month of July (this is an exception to our usual practice).

ELECTIVE NAME:

Endocrinology and Metabolism

COURSE NO:

MED 622

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Spectrum Health Butterworth

Saint Mary's Health Care

DESCRIPTION:

This elective is designed to expose students to patients with suspected or diagnosed endocrine diseases. Most patients will be seen in the office, but some inpatient consultations also arise. Students will see how endocrine disease presents in average patients. During the rotation, they will learn to collect a detailed but focused history for endocrine disease, see physical manifestations of the disease, and learn the rationale for diagnostic testing. They will also study the intricacies of interpreting laboratory and imaging studies, including the effect of normal physiological rhythms, and the effect of medications. The most frequent endocrine problems seen include thyroid disorders, disturbances of calcium metabolism, hirsutism and adrenal dysfunction and pituitary diseases.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Gastroenterology

COURSE NO:

MED 615

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Spectrum Health Butterworth*

Spectrum Health Blodgett

Saint Mary's Health Care

OBJECTIVES:

The student will develop basic clinical skills which are important for dealing with G.I. disease.

Student will develop a greater knowledge for the use of special G.I. diagnostic procedures.

Students will learn basic diagnostic and therapeutic approaches to common G.I. problems.

The student will gain a better understanding of the pathophysiology of G.I. disease.

DESCRIPTION:

This elective will provide the student with experience and interpretation of G.I. radiographic procedures and performance of sigmoidoscopy. The student will have the opportunity to observe numerous diagnostic procedures.

The student will be assigned patients with G.I. problems on whom he/she will perform clinical history and physical examination and develop diagnostic and treatment plans. These will be discussed with faculty members. Special emphasis will be given to history taking and knowledge of diagnostic procedures necessary to solve patient problems. Important diagnostic and therapeutic approaches to G.I. disease, including various physiologic study methods, will be discussed. The student is expected to read about G.I. physiology and pathophysiology from suggested sources.

Inpatient: 30-50%; Outpatient: 50-70%.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

*Seniors Intern Equiv.

ELECTIVE NAME:

Hematology

COURSE NO:

MED 609

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Spectrum Health Butterworth

Saint Mary's Health Care

OBJECTIVES:

The student will be able to discuss and recognize a wide variety of hematologic problems.

The student will be introduced to the clinical evaluation and recognize indications for managing assorted hematologic problems.

The student may have the opportunity to perform bone marrow aspiration and biopsy.

The student will show efficiency in interpretation of blood smears.

DESCRIPTION:

This elective will evaluate and follow hospitalized patients with a variety of hematological problems. The student may have the opportunity for in-office experience evaluating new patients and in follow-up of hematological problems.

The student will attend seminars and conferences related to the problems of individual patients being seen, major blood diseases and associated affects of hematology.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Infectious Disease

COURSE NO:

MED 618

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Citywide

OBJECTIVES:

1. The student will be exposed to the diagnostic and therapeutic approach to patients with presumed or actual infectious diseases.
2. The student will know the commonly used antibiotics, including their pharmacology, spectrum, side effects, indications and contraindications.
3. Basic management principles of diagnosis and treatment of HIV.

DESCRIPTION:

The student will actively participate in the evaluation and management of patients with infectious disease problems.

Emphasis will be placed on learning through active participation in infectious disease consultation and follow-up.

Inpatient: 90%; Outpatient: 10%

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Medical Critical Care

COURSE NO:

MED 628

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Spectrum Health Butterworth

Spectrum Health Blodgett

DESCRIPTION:

The Medical Critical Care rotation for the medical student is an excellent opportunity to see, examine, discuss, and treat severely ill patients. The degree of knowledge and experience gained at the end of the rotation is directly related to the amount of effort the student puts into the rotation. Being available in the unit, working closely with the medical house staff, being willing to accept patients for evaluation and workup, looking up references regarding sicknesses their patients may have, attending the didactic lectures, staying after hours with the medical house staff, acquiring expert skills and diagnosis, and performing the procedures can be achieved with this rotation.

The Medical Critical Care rotation at Spectrum Butterworth is a unique arrangement utilizing a team approach. Each month, a rotating team consisting of a pulmonologist and a cardiologist round together in the Intensive Care Unit with the assigned house staff and medical students. Patients may be under the direct control of this critical care team or may be seen on a consultation basis only.

Special effort has been taken that the house staff rotating on a critical care service have primary responsibility for patient care procedures and record keeping, including patients' daily order writing. Other sub specialists who are available and are consulted frequently evaluate complicated medical problems outside the fields of Pulmonology and Cardiology. This core attending team is available at all times, 24 hours a day, and weekends.

The primary goal of the Medical Critical Care rotation is to provide the rotating house staff with primary patient control experience. The number of admissions and consultations to the service are usually more than adequate. The opportunity to see and deal with complex medical problems are frequent. Since statistically most medical intensive care patients concern primary cardiac and pulmonary systems, the main crux of the intensive care rotation is well supported by the attending staff.

Bedside teaching and examination is a unique feature of this rotation. Daily review of the patient's symptoms, physical exams, and laboratory data, including EKGs and chest x-rays, are part of the daily rounds. When complex procedures are performed, such as bronchoscopy and echocardiography, the house staff is requested to be present for their review.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Medicine/Pediatrics

COURSE NO:

MED 628

PREREQUISITE:

Req'd Medicine and Pediatric Clerkships

INSTITUTION:

Spectrum Health Butterworth

INSTRUCTOR:

Dr. R. Switzer et al.

CONTACT:

Dr. R. Switzer 616-531-6040

OBJECTIVES & DESCRIPTION:

Upon completion of the clerkship the student should: Be familiar with the evaluation and management of common medical problems and the basic principles of health maintenance for children and adults.

Gain an appreciation for the overlap in health issues pertinent to Internal Medicine and Pediatrics and learn more about disease processes that span generations.

Be familiar with the basic principles of prevention and patient education.

Gain proficiency in a number of basic procedures pertinent to outpatient practice.

Recognize the importance of psychosocial issues in patient care.

This rotation is designed to provide individualized teaching in the management of inpatient and outpatient medical problems for students considering a combined Medicine/Pediatrics residency. Common problems seen in the medical setting, psychosocial issues affecting patient compliance, and general health maintenance care are addressed. Students will typically spend one week each on Medicine and Pediatric inpatient settings and two weeks in outpatient office settings. Flexibility exists to tailor the month to meet individual student needs upon discussion with the Clerkship Director. Other activities may include grand rounds and teaching conferences.

Inpatient: 50%; Outpatient: 50%.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Nephrology

MEDICINE/OUTPATIENT

COURSE NO:

MED 612

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Spectrum Health Butterworth

Saint Mary's Health Care

OBJECTIVES:

The student will gain insight into the clinical symptoms and management of the most frequent nephrological diseases.

The student will gain understanding of the significant laboratory tests employed for the assessment of renal function.

The student will be provided with the opportunity to elaborate and refine their skills relative to management of fluid and electrolyte problems.

The student will gain insight into the various hormonal influences upon kidney function as well as in various forms of renal disease.

DESCRIPTION:

This elective is designed to provide students with an understanding of the physiologic and histologic phases of renal disease. An emphasis is placed on active student participation and the management of patients with acute and chronic renal failure based on an understanding of the physiologic changes that occur in the disease process. In addition, elaboration on the principles of fluids and electrolyte therapy as well as the diagnosis and management of hypertension which are closely related to various forms of renal disease will be considered part of this elective.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Neurology

COURSE NO:

MED 617

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Spectrum Health Butterworth

Spectrum Health Blodgett

Saint Mary's Health Care

OBJECTIVES:

To further develop the basic clinical skills important in dealing with neurological diseases.

To develop greater knowledge in the use of neurological diagnostic procedures.

To learn basic therapy and approaches to common neurologic diseases.

DESCRIPTION:

The student will perform history and physical examinations on patients with neurological problems, develop diagnostic and treatment plans, and discuss them in detail with the faculty member. Special emphasis will be given to history taking and the diagnostic procedures necessary to solve patient problems. Introductory experience will be provided in interpretation of some basic diagnostic procedures such as EEG, EMG, cerebral angiography,

computerized tomography, radionuclide brain scan and cisternogram.

Inpatient: 15-50%; Outpatient: 50-85%

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Oncology

COURSE NO:

MED 610

PREREQUISITE:

Req'd. Medicine Clerkship

INSTITUTION:

Spectrum Health Butterworth

Spectrum Health Blodgett

Saint Mary's Health Care

DESCRIPTION:

The student electing Oncology will have the opportunity to gain knowledge concerning epidemiology, etiology, and early diagnosis of neoplastic disease, as well as both the standard and promising experimental cancer programs.

The student will spend time with both the acutely and chronically ill patient in hospital, physician's office and, if desired, Hospice home care programs. Hospital participation includes working with a designated oncologist, participating with house staff on rounds, attending tumor conferences, and dealing with individual patient's problems.

In the office setting, the student will observe and participate in the treatment and evaluation of ambulatory patients, and gain insight into the Hospice concept. Hospice participation includes home care, symptom control, and the team approach to terminal illness.

Inpatient: 25-30%; Outpatient: 70-75%

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

ELECTIVE NAME:

Physical Medicine & Rehabilitation

COURSE NO:

MED 626

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Mary Free Bed Rehabilitation Center

OBJECTIVES:

The student will become familiar with a comprehensive and multidisciplinary approach to rehabilitation medicine.

The student will observe electrodiagnostic procedures.

The student will have an opportunity to practice evaluation skills.

The student will gain experience in working with a wide range of disabled patients in specialty clinics and with patients with a variety of musculoskeletal disorders.

The student will participate in modern methods of health care delivery and rehabilitation in both ambulatory and hospitalized patients.

DESCRIPTION:

This course offers students an opportunity to become a member of a multidisciplinary team, to learn the roles and contributions of the various health professionals in comprehensive rehabilitation medical care. The functional evaluation of disability and the setting of realistic goals for disabled patients will be practiced in work with physical and occupational therapy services, vocational and psychological counseling and social services. The student will be introduced to electromyography and its use in diagnosis of neuromuscular disorders. He/she may participate in

multidisciplinary prosthetic and orthotic clinics. Flexibility is offered in order to accommodate special interests of the student. Inpatient: 40%; Outpatient: 60%.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

NOTE: Students, please contact Barb White at Mary Free Bed one week prior to beginning rotation so she may provide important information:

(616) 242-0429.

ELECTIVE NAME:

Pulmonary Medicine

PREREQUISITE:

Req'd Medicine Clerkship

COURSE NO:

MED 614

INSTITUTION:

Spectrum Health Butterworth

OBJECTIVES:

The student will learn to diagnose and treat common pulmonary diseases.

The student will be able to identify patients who may profit from seeking consultative assistance or special evaluations such as bronchoscopic or pulmonary function testing, and will watch supervised treatment utilizing skilled personnel or equipment such as mechanical ventilators.

The student will have the opportunity to observe all common thoracic procedures and participate in a select group of these procedures.

The student will have the opportunity throughout the elective experience to see how the major pulmonary diseases are handled and managed.

DESCRIPTION:

This elective will provide the student an experience in the diagnosis and management of all types of pulmonary diseases, both acute and chronic areas. The major areas of study include respiratory failure, pulmonary physiology, diagnosis and treatment of various chest diseases including chest trauma, obstructive airway disease and pneumonia. The student is expected to attend weekly medical chest conferences in addition to inpatient and outpatient experiences. This is an active service where the student has a wide variety of opportunities to be involved.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.

Srs. Intern Equiv.*

ELECTIVE NAME:

Rheumatology

COURSE NO:

MED 627

PREREQUISITE:

Req'd Medicine Clerkship

INSTITUTION:

Private Office

CLINICAL ACTIVITIES:

Rheumatology clinic consultations

Rheumatology hospital consultations

Clinical immunology laboratory experience (optional, arranged periodically)

Cadaver joint aspiration tutorial (periodically held)

Orthopedic office experience

Attend Arthritis Education Clinic (intensive rehabilitation intervention for patients with new polyarthritis).

BEHAVIORAL OBJECTIVES:

Become skilled in the appropriate neuromusculoskeletal examination, concentrating on the hand, knee, shoulder and back.

Perform urinalysis and gain competence in examination of the urinary sediment for evidence of nephritis..

COGNITIVE OBJECTIVES:

Read appropriate portions of the rheumatology elective syllabus including: Primer of Rheumatology, ACR core curriculum, associated articles.

Learn differential diagnosis and diagnostic approach for: monoarticular arthritis, polyarticular arthritis, raynaud's phenomenon, muscle weakness, connective tissue diseases including sclerosing skin conditions and overlap syndromes, vasculitic syndromes, low back pain, shoulder pain, foot pain, diffuse pain syndromes, rheumatic causes of recurrent abortion, spinal compression fracture and secondary causes (i.e., metabolic bone disease), iritis and uveitis.

List appropriate tests and diagnostic clues which can be gained from synovial fluid analysis.

Understand the potential risks and prudent therapeutic approach to the treatment of rheumatic diseases with particular emphasis on the use of corticosteroids in chronic inflammatory diseases.

Understand the rational and important components of a preseason athletic physical evaluation and approach to the treatment of acute athletic injuries.

Understand and prescribe an appropriate rehabilitation program for osteoarthritis of the knee, hip, rotator cuff tear, and myofascial low back pain.

Have a basic understanding of the concepts of joint protection, proper positioning, muscle strengthening, splinting, fractures, septic arthritis, monosodiumurate and calcium pyrophosphate disease.

EVALUATION:

Preceptor(s) will be asked to submit a written evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout elective rotations.